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KERN®

BALANCES & TEST SERVICE

for laboratory, industry and food industry



OUT NOW: THE NEW KERN EASYTOUCH APP

PROFESSIONAL MEASURING

How do I quickly find the product I am looking for?

The tried and tested quick search system - "Quick-Finder" ahead of each product group allows you to base the search for a certain target group on weighing data you need such as readout, weighing capacity and main features for each model.

And it's as simple as that - find the product you want in 2 steps:

- 1. Go to the product group index on page 3
- 2. Pick the appropriate product group and find the product you want using the Quick-Finder.
- .. or use the model name and find the product quickly and efficiently using the A-Z model list:

[d]	[Max]					For	an expra	esation on	tire poor		
601	g	KERN	24	1			•			•	
0,001	60	440-21A	22	1			•			•	
0,001	100	PCB 100-3	23	- 1			•			•	
	120	PFB 120-3	25	1				0		÷	
0,001	120	KB 120-3N					•			•	
0,001	200	PFB 200-3	23	-							
0,001	220	EW 220-3NM	30		0	•					-
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0,001	240	KB 240-3N	25								•
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0,001	300	EWJ 300-3	26	- 1							
0,001	300	EWJ 300-3H	26	- 1		•					
0,001	300		27	1							
0.001	300	572-31	21	1			-:				
0,001	350	PCD 300-3	22	1			-	-			
0,001	350	PCB 350-3	25	- 1			•	-			
0,001	360	KB 360-3N	27	. 1			•				
0,001	420	572-32	28	1			•		-		

KERN Models A-Z

440	_24 F	
572/573	_27 FCB	50
A	FCE-N	49
ABJ-NM/ABS-N 37	/38 FCF	
ACJ/ACS 37	/38 FFN	
ABP40)/41 FGE	
ABT-NM	39 FKB	
ADB/ADJ	FOB · FOB-NL	
ADB/ADJ35	/36 FOB-LM	57
В	LOR-N2 · LOR-2	
BFB 107/	108 FXN · FXN-M	62
BFN 107/	109 G	
BIC	104 GAB-N	51
BIC 105/	106 H	
C	HCB	154
CH	151 HCN	155
CCA 80	/81 HCD	
CCS82	/83 HDB-N	
CDS	79 HDB-XL	
CE HX	121 HFA	
CFS	76 HFC	
CKE	77 HFD	
CIB	73 HFM	
CM	9 HGA	150
CM-C	_10 I	
CPB		
CXB/CXB-NM		
D	/ IOC	
	_43 IXS	100/101
DBS	_44 K	
DE-D 91		
DLB		122
DS		
E	KFB-TM	
ECB-N/ECE-N	_48 KFD-V20	
EG-N/EW-N	30 KFD-V40	
EHA	16 KFN-IM	
EMB	13 KFP-V20 IP65	
EMB-S	12 KFP-V20 IP67	
EMB-V	14 KFP-V30	
	KFP-V40	
EOB		
EOS	_90 KFU-V20	
EOC93		
EOE	_OO KID TM	
EWJ	_26 KIP-V20M	
	KXP-V20 IP65	
	KXF-V20 IF 03	

	N	
50	NIB	115
49	NFB	116
56	NFN	117
61		''
55	Р	
52	PBJ/PBS	31
59	PCB	22
57	PCD	21
58	PEJ/PES	32
62	PFB	23
.02	PLJ/PLS	28
	PNJ/PNS	29
51	R	
	RFE_	69
54	RIB	67
155	RPB	68
156		
152	\$	/0
53	SFB/SFB-H	
157	SFE	
58	SXS	64/65
60	Т	
161	TEE	9
50	TGC	9
	TGD	10
97	U	
	UFA	110
78	UFB	113
96	UFN	115
101	UIB	111
	UID	112
25		112
122	V	
36	VHB	147
131	W	
35	WTB_	60
137	Υ	
33		190
34	YKV	120
35	YRO-01/-02/-03	174
36		
127		





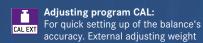




KERN Pictograms

Internal adjusting:

CALINT Quick setting up of the balance's accuracy with internal adjusting



R Easy Touch: Suitable for the connection, data transmission and control through PC or tablet. For details see page 123





PCS Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 215

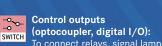


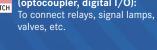












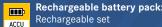








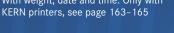
set for KERN balances and other instrucontrolling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers



GLP/ISO log:

he balance displays serial number, regardless of a printer connection







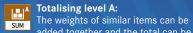
Piece counting: Reference quantities selectable. Display can be switched from piece

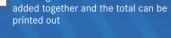


Recipe level A:
The weights of the he weights of the recipe ingredients an be added together and the total weight of the recipe can be printed out



nternal memory for complete recipes recipe ingredients. User guidance





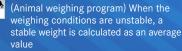


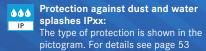
DMS

Weighing units: Can be switched to e.g. nonmetric nits. See balance model. Please refer to KERN's website for more details

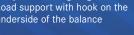
Weighing with tolerance range: Checkweighing) Upper and lower limiting +3 DAYS can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model



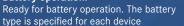
















C) EU, CH, GB, USA, AUS Plug-in power supply:

230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version

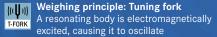
Integrated power supply unit: ntegrated in balance. 230V/50Hz

GB. USA or AUS on request

Weighing principle: Strain gauges

tandard EU. More standards e.g.





Weighing principle: Electromagnetic force compensation

For the most accurate weighings

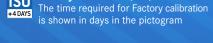
Weighing principle: Single cell nology:

dvanced version of the force compensation principle with the highest level of precision

Verification possible:
The time required for verific specified in the pictogram The time required for verification is

DAkkS calibration possible (DKD): The time required for DAkkS calibratior is shown in days in the pictogram

ISO Factory calibration (ISO):







The time required for internal shipping reparations is shown in days in the pictogram

KERN – Measuring technology and testing services from a single source

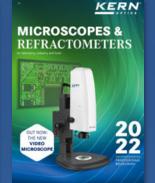


Provides a complete overview of the KERN line scales, from infant scales of balances, test weights, and services such as verification, calibration,



Balances & Test service Medical scales catalogue Microscopes &

to patient scales, chair scales and adiposity scales, as well as hand grip dynamometers, chemist's balances and veterinary scales.



refractometers catalogue equipment catalogue

Complete line of medical Extensive range in the area of optical instruments, industry and commerce, such as, biological microscopes, stereo microscopes, metallurgical thickness and calibration microscopes, polarisation microscopes as well as analogue and digital refractometers.



SAUTER measuring

Test instruments for such as force, coating thickness, material



service brochure

and force measuring devices.



DAkkS calibration

Detailed information on topics pertaining to the calibration and verification of balances, test weights,

Your advantages

fast

- 24 hours delivery service for products in stock – ordered today, on its way tomorrow
- Sales & service hotline available from 8:00 am to 6:00 pm

reliable

Up to 3 years warranty

Order hotline

+49 7433 9933-0

Service hotline

+49 7433 9933-199

+49 7433 9933-196

will assist you

Calibration hotline

Our team of consultants

from Monday to Friday

from 8:00 am to 6:00 pm

 Precision in weighing technology for more than 175 years

competent

- DAkkS accreditation DIN EN ISO/IEC 17025
- Certified QM system **DIN EN ISO 9001**
- Authorisation for initial verification by the manufacturer 2014/31/EU
- Medical certifications DIN EN ISO 13485 and 93/42/EWG

versatile

- One-stop shopping: from pocket balances through to 12 t crane balance – everything from one supplier
- Find the product you want at lightning speed with the "Balance Quick-Finder" at www.kern-sohn.com







www.kern-sohn.com

Information on current product availability, product data sheets, user instructions, useful knowledge, technical glossary, images and much for you to download, practical topic areas, which will guide you to the right product in your industry as well as a clever test weight and balance search engine.

Keyword index

iposity scalessee webscessories162- bi memory95/ uminium sample platesee websalytical balances33- imal scales50, 52, 56, 64/65, 88-1104-117, 131-133, 151-1	174 '96
bi memory	96
uminium sample plate43- alogue refractometersee webs alytical balances33- imal scales50, 52, 56, 64/65, 88-1 104-117, 131-133, 151-1	96 45
uminium sample plate43- alogue refractometersee webs alytical balances33- imal scales50, 52, 56, 64/65, 88-1 104-117, 131-133, 151-1	45
alytical balances33- imal scales50, 52, 56, 64/65, 88-1 104-117, 131-133, 151-1	
imal scales50, 52, 56, 64/65, 88-1 104-117, 131-133, 151-1	
104-117, 131-133, 151-1	-41
	01,
	55
hy scales see web	
	site
nch scales48-	-52
uetooth/RS-232 Adapter	
dy fat scalessee webs	
<u> </u>	
libration 202-	214
ibration Service 202-	
rat balances10, 14, 21–32, 34	
talogues, Brochures, Flyer2, :	
air scalessee web	site
air weigherssee web	
ating thickness gauges see web	
lumn	172
ntrol of checking equipment_202–214,	
unting scales70-	
unting systems80-	
ane scales 156-	161
kkS/DKD202-	214
nsity determination 13-14, 22-23,	25
27-28, 30-32, 36-41,	134
27-28, 30-32, 36-41, play devices 121, 128-	
27-28, 30-32, 36-41, play devices 121, 128- ve-through scale 115-	117
27-28, 30-32, 36-41, play devices 121, 128- ve-through scale 115-	117
27-28, 30-32, 36-41, play devices 121, 128- ve-through scale 115- ing balance 42-	117 -45
27-28, 30-32, 36-41, play devices 121, 128- ve-through scale 115- ring balance 42- th's gravitational force	117 -45 218
27-28, 30-32, 36-41, play devices 121, 128- ve-through scale 115- ring balance 42- th's gravitational force; yTouch App 123-	117 -45 218 127
27-28, 30-32, 36-41, play devices 121, 128- /e-through scale 115- ing balance 42- th's gravitational force 123- ipment qualification 22- 27-28, 30-32, 36-41,	117 -45 218 127 208
27-28, 30-32, 36-41, play devices 121, 128 - re-through scale 115 - re-through scale 42- th's gravitational force 123 - represent qualification 22- gravityRS-232 Adapter 123 - remark qualification 123 - remar	117 -45 218 127 208 169
27-28, 30-32, 36-41, play devices 121, 128-ye-through scale 115-ing balance 42- th's gravitational force 123-jipment qualification 22-ernet/RS-232 Adapter	117 -45 218 127 208 169
27-28, 30-32, 36-41, play devices 121, 128-ve-through scale 115-ving balance 42-ving balance 123-ving balance	117 -45 218 127 208 169
27-28, 30-32, 36-41, play devices 121, 128-ye-through scale 115-ing balance 42-th's gravitational force 123-ipment qualification 2ernet/RS-232 Adapter llosion hazard 1	117 -45 218 127 208 218
27-28, 30-32, 36-41, play devices	117 -45 218 127 169 218
27-28, 30-32, 36-41, 128- re-through scale 121, 128- re-through scale 115- ring balance 42- rh's gravitational force 123- ripment qualification 22- rernet/RS-232 Adapter 10sion hazard 213- ror scales 102-	117 -45 218 127 208 218 218
27-28, 30-32, 36-41, play devices	117 -45 218 1127 208 1169 218 214 117
	117 -45 2218 127 208 1169 218 214 117
27-28, 30-32, 36-41, play devices	117 -45 218 127 208 169 218 214 117 133 site
27-28, 30-32, 36-41, play devices	117 -45 218 127 208 1169 218 117 133 site
27-28, 30-32, 36-41, 128- 2e-through scale	117 -45 218 127 208 1169 218 117 133 site
	117 -45 218 1127 208 2169 218 214 117 133 site
27-28, 30-32, 36-41, play devices	117 -45 218 127 208 169 218 214 117 133 site
27-28, 30-32, 36-41, play devices 121, 128-ve-through scale 115-ving balance 42-ving balance 123-ving balance 100-ving balance 100-ving balances 100-ving balances 100-ving balances see websing balances see websing scales	117 -45 218 127 208 169 218 214 117 133 site
27-28, 30-32, 36-41, play devices 121, 128- ve-through scale 115- ting balance 42- th's gravitational force 123- ipTouch App 123- ipment qualification 2 ernet/RS-232 Adapter 2 or scales 102- ot switch 100/101, ce gauges see web in balances see web adrail scales see web riness tester see web	117 -45 218 1127 208 1169 214 117 1133 site
	117 -45 218 127 208 169 218 214 117 133 site

I	
ndustrial scales	46-147
nformation	215-218
nterface cable	166
nternet	2
oniser	34-41, 173
P 6568 protected scales	
	109, 114, 117
SO calibration	213/214
J	
unction box	145
1/	

		Safety Set
ales	55	Semi-micro balance Shop balances
		Signal lamp
	see website 215-217 138-145	SoftwareSpring balances Stainless steel scale
		Tare pan

Lexicon	215-217	
Load cells		
Luggage scale		Т
М		Tare
Material thickness gauge	see website	Temp
Measuring cells	138-145	Tensi
Mechanical balances		Term
(spring balances)	_ see website	Test
Medical scales	see website	Test
Microscopes, biological	see website	Test
Microscopes, metalurgical	see website	Touc
Microscopes, polarisation	see website	Twee
Microscopes, stereo	see website	U
Minimum sample weight	207	Unde
Mobile pallet weigher	146-147	2:
Moisture analysers	42-45	
Р		V
		Verif

Р	
Pallet scales	111-114
Personal floor scales	_ see website
Personal scales	_ see website
Pictogram overview	2
Platform scales	84-101
Plattforms119,	122, 134-137
Plummet, density determination	172
Pocket balances	08-10
Power supply adapter set	171
Pre-packaging legislation (FPVO)	216
Precious stones plate	29
Precision balances	11-41
PREMIUM+ WEIGHTS	176
Price computing scales	66-69
Printers	163-165
B. C. C. C.	4-0

R	
Recalibration	210, 217
Refractometers, digital	see website
Retail balances	66-69
Roller conveyor	174
Round fiberglass filter	43-45
RS-232/Bluetooth-Adapter	170
RS-232/Ethernet-Adapter	169
RS-232/USB-Adapter	171
RS-232/WiFi-Adapter	169
S	

0	
Safety Set	1
Semi-micro balances_	35/36, 39-
Shop balances	66-
Signal lamp	1
Software	
Spring balances	see webs
Stainless steel scales _	58-59, 61-0
	_ 99-101, 109, 114, 1
Т	
·	

<u>'</u>	
Tare pan	172
Temperature calibration set	43-45
Tensile force measurement device	_ 157-158
Terminals12	1, 131–133
Test service	_ 202-214
Test standsse	ee website
Test weights	_ 175-201
Touchscreen scales	_ 123-127
Tweezers	198
U	
Underfloor weighing, accessories	13-14

Underfloor weighing, accessories	13–1
22-23, 25, 27-28, 30-32, 35-41, 77,	79, 9
V	

	V	
_	Verification	211, 2
114	Verification plug	95/96, 105/1
site	W	

Weighing beams	11
Weighing bridges	134-13
Weighing Systems Industry 4.0	17
Weighing table	17
Weighing transmitter, digital	12
Wheelchair platform scales	_ see websit
WiFi/RS-232 Adapter	16

Product group index 2022

01	Pocket balances	08 - 10
02	School balances	11 - 16
03	Precision balances	17-32
NEWS 2022 4	Analytical balances	33 - 41
05	Moisture analysers	42-45
06	Bench scales	46-52
NEWS 2022 07	Food (kitchen/stainless steel/IP6568 protection)	53-65
NEWS 2022 08	Price computing scales	66-69
NEWS 2022 9	Counting scales/Counting systems	70-83
10 NEWS	Parcel scales/Platform scales	84-101
NEWS 2022 1 1	Floor scales/Pallet scales/Drive-through scales	102 - 117
12	Weighing Systems Industry 4.0/EasyTouch	EasyTouch 118 – 127
13	Display devices/Platforms/Weighing bridges Load cells	128 – 145
14	Pallet truck scales	146 – 147
15	Hanging scales/Crane scales	148 – 161
16	Accessories	162 - 174
17	Test weights	175 – 201
18	DAkkS Calibration Service/Verification service	202 – 214

NEWS 2022

In 2022 we have many new models for you in our program

Analytical balances KERN ADB

The price leader in analytical balances with internal or external adjustment – now as version with [Max] 220 g!

Further details > P. 34



Analytical balances KERN ALS-A · ALJ-A

Analytical balance with high weighing capacity, graphic display and convenient recipe function — now also available as single-range semi-microbalance with incredibly high resolution

Further details > P. 35/36



Analytical balances KERN ABP

Premium analytical balance with the latest Single-Cell Generation for extremely rapid, stable weighing results – now also available as single-range semi-microbalance with incredibly high resolution

Further details > P. 40/41



Stainless steel platform scale KERN SXS

High-quality stainless steel platform scale with stainless steel IP68 display device – now also as high resolution version with high-resolution display

Further details > P. 64/65



Price computing scale KERN RPB

Retail scale with memories for item prices – now with Checkout-Dialogue 06

Compact portion scale with 2 XXL displays – weight, unit price, total price and TARE value at a glance

Further details > P. 69



Further details > P. 68

Counting system KERN CCA

High-resolution counting system with EC type approval to count the smallest parts in large quantities, maximum number of parts which can be displayed is 999,999 – many new models now

Further details > P. 80/81

Industrial platform scale KERN IOC

Price computing scale KERN RFE

Allround platform scale with a wide range of communication options and EC type approval [M] – now also available as high-resolution version with fine display

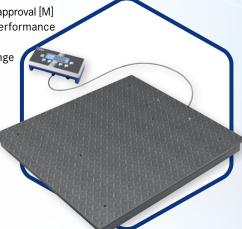
Further details > P. 95/96



Floor scales KERN BID/BID-D

Floor scale with EC type approval [M] and the best price-to-performance ratio – now also as high-resolution dual-range balance

Further details > P. 105/106



Anti-vibration plates KERN YPS-04, -05, -06

Anti-vibration plates for absorbing shocks and vibrations. Ideal for vibration-free installation of precision balances, analytical balances or microscopes

Further details > P. 173





Compatible models are now marked in the catalogue with the EasyTouch symbol.

Detailed information > Page 123 – 127

Do you have questions about our products? Our customer consultants will be pleased to assist you:

UK, IE, IS, FR, Maghreb, BE, LUX

UK, IE IS

BE, LUX



Maren Möwert
Customer support
Tel. +49 7433 9933-132
Mobil +49 151 46143240
maren.moewert@kern-sohn.com



Rebecca Schäfer
Back Office
Tel. +49 7433 9933-119
rebecca.schaefer@kern-sohn.com



Kerstin Schweitzer Back Office Tel. +49 7433 9933-289 kerstin.schweitzer@kern-sohn.com

DK, SE, FI, NO, PL, LV, LT, EE



Mark Hauder
Customer support
Tel. +49 7433 9933-310
Mobil +49 160 3378426
mark.hauder@kern-sohn.com



Rebecca Schäfer
Back Office
Tel. +49 7433 9933-119
rebecca.schaefer@kern-sohn.com

GR, CY, BG, HU, RO, SK, CZ, AL, Ex-Yugoslavia, GUS



Aleksandar Delić Customer support Tel. +49 7433 9933-120 Mobil +49 151 11196197 aleksandar.delic@kern-sohn.com



Kassiani Chasioti Back Office Tel. +49 7433 9933-153 kassiani.chasioti@kern-sohn.com

North America, Near- & Middle East, Africa, Asia, Oceania, TR



Corinna Matthes
Customer support
Tel. +49 7433 9933-215
Mobil +49 151 44568364
corinna.matthes@kern-sohn.com



Corinna Matthes
Back Office
Tel. +49 7433 9933-215
Mobil +49 151 44568364
corinna.matthes@kern-sohn.com

Technical Service



James Nelson Tel. +49 7433 9933-148 james.nelson@kern-sohn.com



Sven Göggel Tel. +49 7433 9933-189 goeggel@kern-sohn.com

DAkkS Calibration Service Test weights



Measuring instruments



Waldemar Fleitling
Tel. +49 7433 9933-163
fleitling@kern-sohn.com



Karl-Richard Fuchs Tel. +49 7433 9933-136 fuchs@kern-sohn.com

Board of Management



Albert Sauter
Tel. +49 7433 9933-157
albert.sauter@kern-sohn.com

Accountancy

Jutta Osswald Tel. +49 7433 9933-159 jutta.osswald@kern-sohn.com

Sales & Marketing Manager

Marketing Manager Data & Online Marketing, Deputy Sales Manager

Marketing Manager Integrated Marketing Communication



Stephan AdeTel. +49 7433 9933-121
Mobil +49 171 3060086
ade@kern-sohn.com



Hendrik Neff Tel. +49 7433 9933-161 Mobil +49 171 3059946 hendrik.neff@kern-sohn.com



Thomas FimpelTel. +49 7433 9933-130 fimpel@kern-sohn.com

KERN segment specialists

Laboratory



Sales department
Aleksandar Delić
Tel. +49 7433 9933-120
Mobil +49 151 11196197
aleksandar.delic@kern-sohn.com

Industry



Sales department
Florian Bächle
Tel. +49 7433 9933-118
Mobil +49 151 446 11168
florian.baechle@kern-sohn.com

Medical sector



Sales department Julia Sauter Tel. +49 7433 9933-168 Mobil +49 151 72838959 julia.sauter@kern-sohn.com

Test weights



Sales department
Taras Mikitisin
Tel. +49 7433 9933 - 143
Mobil +49 171 5590115
mikitisin@kern-sohn.com

Food



Riccardo Spataro
Tel. +49 7433 9933-147
Mobil +49 151 46143234
riccardo.spataro@kern-sohn.com

Software KERN EasyTouch



Sales department Ina Reger Tel. +49 7433 9933-218 ina.reger@kern-sohn.com

KERN Hotlines

+49 7433 9933 - ...

Service hotline	199	for general technical questions about your KERN or SAUTER product
System solutions Industry 4.0	200	for all technical questions concerning the interlocking of the latest information and communication technology with our scales, measuring cells and measuring devices as well as questions about KERN software
Industrial scales	333	for all technical questions concerning our basic scales (laboratory & industry), pocket balances, school balances, bench scales, price-computing scales, platform scales, counting scales, counting systems, floor scales, pallet truck scales, crane scales
Laboratory and analytical balances	444	for all technical questions concerning our high quality precision balances, analytical balances (especially with electromagnetic force-compensated measuring systems, tuning fork and high application density)
Medical scales	499	for all technical questions concerning our baby scales, personal scales, handrail scales, chair scales, wheelchair scales, dynanometers
SAUTER measuring instruments	555	for all technical questions concerning our SAUTER measuring instruments, test benches, force measuring accessories (clamps etc.), SAUTER software
Moisture analysers	599	for all technical questions concerning our moisture analysers
Optical devices	777	for all technical questions concerning our microscopes, microscope cameras, refractometers, etc.

KERN TGC Page 9

- > High-resolution pocket balance
- > Fast response and settling time
- > Particularly flat design
- > Stainless steel weighing plate



Pocket balances

Pocket size precision

Pocket balances are the ideal helpers whenever mobility and high precision are required. Since they have fewer keys, operation is simple and fast. Different weighing units stored in the pocket balance, such as g, oz, ct, gn, etc., make them universally usable. An integrated calculator allows you to use the measured weight immediately in calculations, to e.g. determine a price, quantity, average value and much more. Compact in size and well protected with a flap or protective cover, which can be used as a convenient taring container, the pocket balance is always a useful tool for mobile weighing.

- In production, to control of production weights or during the picking of small parts
- In quality control for the quick testing of small parts like plastic parts from injection moulding machines, milled parts, screws, etc.
- For mobile weighing, on-site sampling, and fast analysis wherever there's no power outlet
- In hobbies and sports, e.g. when filling black powder, weighing parts from modelling kits etc.
- In commerce, for the fast determination of the weights of coins, jewellery, precious stones, etc.
- In veterinary sector for the weighing of small animals, the mixing of food, etc.
- In the food sector for the preparation of spice or tea mixes, for the weighing of food in line with a diet sheet.

Quick-Finder Pocket balances

Readability [d]	Weighing capacity [Max]	Model	Page	DAYS	CALEXT	BATT
g	g	KERN			For an explanation on the pi	ctos, see front flap
0,001	50	TGD 50-3CS05 ♥	10	1	•	•
0,002	10	CM 50-C2N ₩	10	1	•	•
0,01	60	CM 60-2N	9	1	•	•
0,01	150	TGC 150-2S05	9	1	•	•
0,1	150	TEE 150-1	9	1	•	•
0,1	150	CM 150-1N	9	1	•	•
0,1	320	CM 320-1N	9	1	•	•
0,1	500	TGC 500-1S05	9	1	•	•
1	1000	CM 1K1N	9	1	•	•
1	1000	TGC 1K-3S05	9	1	•	•



KERN TEE

Designer pocket balance at a bargain price



KERN CM

Pocket balance with integrated pocket calculator



KERN TGC

Slim pocket balance with large stainless steel weighing plate and practical tare pan





- · Simple and convenient 2-key operation
- · Cover made of shock proof plastic as protection against pressure and dust. Can also be used as a tare cup











- · Simple and convenient 4-key operation
- · Hard case cover as protection against pressure and dust
- · Robust, handy, well protected
- · Integrated calculator



STANDARD

- +3 DAYS
- · High-resolution pocket balance with particularly rapid reaction and stabilisation time, which means that you can work extremely efficiently
- · Particularly flat design
- · Cover made of shock proof plastic as protection against pressure and dust. Can also be used as a tare cup
- Stainless steel weighing plate, which makes cleaning easy and hygienic
- Note: The models are only delivered in a set of 5 units. That means the prices given in the table refer to a delivery of 5 units. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

Tip: KERN pocket scales are also ideal as a customer gift or for personolised marketing and sales campaigns. We are happy to print your logo on the cover, the lid or the packaging, up from 100 pieces. Please inquire details

KERN	TEE 150-1*	CM 60-2N	CM 150-1N	CM 320-1N	CM 1K1N	TGC 150-2805	TGC 500-1S05	TGC 1K-3S05	
Weighing capacity [Max] g	150 g	60 g	150 g	320 g	1000 g	150 g	500 g	1000 g	
Readability [d]	0,1 g	0,01 g	0,1 g	0,1 g	1 g	0,01 g	0,1 g	1 g	
LCD display	backlit, digit height 9 mm		backlit, digit l	neight 12 mm		back	lit, digit height 12	2 mm	
Dimensions of weighing plate	W×D 60×64 mm		W×D 70	×80 mm			ø 81 mm		
Overall dimensions	W×D×H 67×100×22 mm		W×I 85×130		W×D×H 100×130×18 mm				
Power supply	Batteries included, 2×1,5 V AAA, operating time up to 50 h	AUTC	Batteries included, 2×1,5 V AAA, AUTO-OFF function to preserve battery life, operating time up to 33 h				Batteries included 2× CR2032, operating time up to 33 h	d,	
Net weight	100 g		18	0 g			200 g		
Permissible ambient temperature		5 °C/35 °C					0 °C/40 °C		
Option DAkkS Calibr. Certificate				963-127					



KERN CM-C

Pocket balance with carat display – ideal for jewellers





KERN TGD

Compact pocket carat balance for precision weighing of jewellery and precious stones



OPTION

DAkkS

+3 DAYS

- Hard case cover as protection against pressure and dust
- Adjusting weight standard
- Draft shield against air movements standard
- Weighing pan standard











- Simple and convenient 4-key operation
- Can be switched over from g to ct, gn, dwt, ozt, oz at the touch of a key
- Innovative touchscreen: Large touch-sensitive, backlit touch display with very good contrast for easy operation and convenient reading
- Hard case cover as protection against pressure and dust
- Stainless steel weighing plate, which makes cleaning easy and hygienic
- Weighing pan standard
- Powder scale with Grain division (gn), ideal for sport shooters, reloaders etc. for self-filling cartridge cases
- USB cable for power supply as standard
- ullet 11 Delivered in appealing packaging
- **Note:** The models are only delivered in a set of 5 units. That means the prices given in the table refer to a delivery of 5 units. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

Tip: KERN pocket scales are also ideal as a customer gift or for personolised marketing and sales campaigns. We are happy to print your logo on the cover, the lid or the packaging, up from 100 pieces. Please inquire details

KERN	CM 50-C2N*	TGD 50-3CS05		
Weighing capacity [Max] g	10 g 50 ct	50 g 250 ct		
Readability [d]	0,002 g 0,01 ct	0,001 g 0,005 ct		
LCD display	digit height 9 mm	backlit, digit height 12 mm		
Dimensions of weighing plate	W×D 50×40 mm	ø 65 mm		
Overall dimensions	W×D×H	W×D×H		
Overall dimensions	85×130×25 mm	96×149×36 mm		
Power supply	Batteries included, 2×1,5 V AAA, AUTO-OFF function to preserve battery life, can be switched off, operating time up to 30 h	Batteries included, 4×1,5 V AAA, operating time up to 150 h without backlight		
Net weight	200 g			
Permissible ambient temperature	5 °C/35 °C	5 °C/35 °C		
Option DAkkS Calibr. Certificate	963-127			



KERN EHA Page 16

- > Large, shock-resistant stainless steel weighing plate
- > Particularly flat design
- > Large, bright LCD display
- > Simple operation, suitable for school and teaching use

School balances

As entry-level models, KERN school balances cover the most important basic applications of laboratory balances and offer simple operation, easy readability and an optimal price-performance ratio. The KERN School balances can be used flexibly and independent of location thanks to battery operation and are therefore the ideal choice for school or teaching purposes.

Our recommendation: Brand new in our product range is the school balance EHA, a real and affordable all-rounder for laboratory, industry and teaching purposes.

• = standard

Quick-Finder School balances

Readability [d]	Weighing capacity [Max]	Model	Page	DAYS	CAL EXT	RS 232	PCS	RECIPE	BATT
g	g	KERN			For an expl	n explanation on the pictos, see front flap			
0,001	100	EMB 100-3	13	1	•				•
0,001	200	EMB 200-3	13	1	•				•
0,001	200	EMB 200-3V	14	1	•	•			•
0,001	300	EMS 300-3	15	1	•		•	•	•
0,01	200	EMB 200-2	13	1	•				
0,01	500	EMB 500-2S	12	1	•				0
0,01	500	EHA 500-2	16	1	•		•		0
0,01	600	EMB 600-2	13	1	•				0
0,01	1000	EMB 1000-2	13	1	•				•
0,01	2000	EMB 2000-2	13	1	•				•
0,01	2000	EMB 2000-2V	14	1	•				•
0,01	3000	EMS 3000-2	15	1	•		•	•	0
0,1	200	EMB 200-1SS05	12	1	•				•
0,1	500	EMB 500-1SS05	12	1	•				•
0,1	500	EMB 500-1	13	1	•				
0,1	500	EMB 500-1BE	13	1	•				
0,1	500	EHA 500-1	16	1	•		•		0
0,1	1000	EHA 1000-1	16	1	•		•		•
0,1	1200	EMB 1200-1	13	1	•				0
0,1	3000	EMB 3000-1	13	1	•				•
0,1	3000	EMB 3000-1S	12	1	•				
0,1	3000	EHA 3000-1	16	1	•		•		-
0,1	6000	EMB 6000-1	13	1	•				
0,1	6000	EMS 6K0.1	15	1	•		•	•	
0,1	12000	EMS 12K0.1	15	1	•		•	•	
1	2000	EMB 2000-0SS05	12	1	•				0
1	2200	EMB 2200-0	13	1	•				•
1	3000	EHA 3000-0	16	1	•		•		
1	5000	EMB 5000-0SS05	12	1	•				0
1	5200	EMB 5.2K1	13	1	•				•
1	6000	EMS 6K1	15	1	•		•	•	-
1	12000	EMS 12K1	15	1	•		•	•	-
5	5200	EMB 5.2K5	13	1	•				







addition -S05







Most economical School balance in the KERN assortment



The space miracle - stackable school balance for experiment-based teaching

Features

- Simple and convenient 2-key operation
- Tare function facilitates formulation work
- · Particularly flat design
- · Secure and non-slip positioning through rubber feet
- 11 Stackable for space-saving storage
- 2 A practical transport safety lock prevents the weighing technology from being overloaded when stacked, stored or during transportation

Technical data

- Large LCD display, digit height 15 mm
- Dimensions of weighing surface, plastic, Ø 120 mm
- Overall dimensions W×D×H 145×205×45 mm
- Optional battery operation, 2×1.5 V AA, standard, operating time up to 35 h, AUTO-OFF function to preserve the battery
- Net weight 2,0 kg
- Permissible ambient temperature 5 °C/35 °C
- · Note: The models are only delivered in a set of 5 units. i.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

Accessories

• External universal mains adapter, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-03N

12













Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Quantity delivered (balance)	Option DAkkS Calibr. Co DAkkS	ertificate	Quantity delivered (DAkkS Calibr. Certificate)
EMB 500-2S	500	0,01	g 0,02	g ± 0,03	1	KERN 963-127		1
EMB 200-1SS05	200	0,1	0,2	± 0,3	5	963-127		1
EMB 500-1SS05	500	0,1	0,2	± 0,3	5	963-127		1
EMB 3000-1S	3000	0,1	0,2	± 0,3	1	963-127		1
EMB 2000-0SS05	2000	1	2	± 3	5	963-127		1
EMB 5000-0SS05	5000	1	2	± 3	5	963-127		1

School balances















Entry level laboratory balance with tremendous weighing performance

Features

- Simple and convenient 2-key operation
- Tare function facilitates formulation work
- · Particularly flat design
- Ready for use: Batteries included
- 11 Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 96×35 mm
- Hook for underfloor weighing standard
- 2 Also available as KERN EMB 500-1BE **Black Edition**
- Note: With the optional auxiliary set for density determination KERN YDB-04 also well suited for school and teaching operation.

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface
- A Ø 82 mm
- Ø 105 mm
- Ø 150 mm, see larger picture
- · Weighing plate material
- A plastic, with conductive lacquer
- B, C plastic
- Net weight approx. 0,85 kg
- · Batteries included, 9 V block, respectively 2×1.5 V AA
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Stainless steel weighing plate, only for models with weighing plate size B, KERN EMB-A02
- · External universal mains adapter, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-03N
- In Ancillary kit for density determination of liquids and solids with density > 1. Scope of supplies: Bridge for holding the beaker (Ø 102 mm), hook (H 139 mm), suitable for models with weighing plate size A, KERN YDB-04

















Model	Weighing	Readability	Reproducibility	Linearity	Housing	Weighing plate	Option
	capacity				dimensions		DAkkS Calibr. Certificate
	[Max]	[d]			W×D×H		DAkkS
KERN	g	g	g	g	mm		KERN
EMB 100-3	100	0,001	0,001	± 0,005	170×244×54	А	963-127
EMB 200-3	200	0,001	0,001	± 0,005	170×244×54	Α	963-127
EMB 200-2	200	0,01	0,01	± 0,02	170×244×39	В	963-127
EMB 600-2	600	0,01	0,01	± 0,03	170×244×39	В	963-127
EMB 1000-2	1000	0,01	0,01	± 0,05	170×244×54	C	963-127
EMB 2000-2	2000	0,01	0,01	± 0,05	170×244×54	C	963-127
EMB 500-1	500	0,1	0,1	± 0,2	170×244×39	C	963-127
EMB 500-1BE	500	0,1	0,1	± 0,2	170×244×39	C	963-127
EMB 1200-1	1200	0,1	0,1	± 0,3	170×244×39	C	963-127
EMB 3000-1	3000	0,1	0,1	± 0,3	170×244×39	C	963-127
EMB 6000-1	6000	0,1	0,1	± 0,3	170×244×39	C	963-128
EMB 2200-0	2200	1	1	± 2	170×244×39	C	963-127
EMB 5.2K1	5200	1	1	± 3	170×244×39	C	963-128
EMB 5.2K5	5200	5	5	± 10	170×244×39	С	963-128













School balance with integrated density determination function

Features

- Easy density determination made easy! Thanks to the self-explanatory, graphic-assisted control panel, the density of solids and liquids can be determined in seconds, making them ideal for use in schools and universities
- Self-explanatory graphic control panel, the workings steps can be understood immediately, even without operating instructions
 - no learning time = reduces costs
- ideal for untrained users
- visualised process avoids operating errors
- The 4 steps are carried out from left to right:
 Tare the balance by pressing the [TARE] key
- Select density determination mode (solids/liquids)
- Weighing of samples/plummets in air
 Weighing of samples/plummets in liquid. The density will be shown on the display right away
- Particularly flat design
- · Hook for underfloor weighing standard
- Ready for use: Batteries included, 9 V block, operating time up to 12 h, AUTO-OFF function preserves the battery
- Note: Balance and appropriate set for density determination should be ordered at the same time, see accessories

Technical data

- · Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic
 Ø 82 mm
- Ø 150 mm, see larger picture
- Overall dimensions W×D×H 175×245×54 mm
- Net weight approx. 0,85 kg
- Permissible ambient temperature 5 °C/35 °C
- Now also with carat weighing unit: EMB 200-3V: 1000 ct/0,005 ct

Accessories

KERN EMB 200-3V:

- In Ancillary kit for density determination of liquids and solids with density > 1. Scope of supplies: Bridge for holding the beaker (Ø 102 mm), hook (H 139 mm), suitable for models with weighing plate size A, KERN YDB-04
- Set for density determination of liquids and solids with density ≤/≥ 1. Scope of delivery: Weighing plate, beaker (Hר 71×51 mm), sample holder, plummet, KERN YDB-01
- DAkkS-Calibration certificate for the plummet (20 g), KERN 962-335V

KERN EMB 2000-2V:

- ✓ Set for density determination of liquids and solids with density ≤/≥ 1. Scope of delivery: Weighing plate, beaker (Hר 135×100 mm), sample holder, plummet KERN YDB-02
- DAkkS-Calibration certificate for the plummet (200 g), KERN 962-338V

STANDARD

















DAkkS +3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Option	
						DAkkS Calibr. Ce	rtificate
	[Max]	[d]				DAkkS	
KERN	g	g	g	g		KERN	
EMB 200-3V	200	0,001	0,002	± 0,005	Α	963-127	
EMB 2000-2V	2000	0,01	0,02	± 0,05	В	963-127	







Entry level model in the low-cost range with large weighing plate

Features

- Especially suitable for use in schools and universities, for example for biology, chemistry,
- Large, shock proof weighing plate made of plastic, with conductive lacquer
- Particularly flat design
- Ergonomically optimised key pad with large keys and a high-contrast LCD display
- · Secure and non-slip positioning through rubber feet
- Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see Test weights
- II Draught shield standard for models with weighing plate size A, weighing space W×D×H 145×145×65 mm
- Suitable for common school LIMS systems

Technical data

- · LCD display, digit height 25 mm
- Dimensions of weighing surface, A Ø 105 mm
 - B W×D 175×190 mm, see larger picture
- Weighing plate material A plastic, with conductive lacquer
- B plastic
- Overall dimensions W×D×H 200×280×63 mm (without draught shield)
- · Optional battery operation, 9 V block not included in scope of delivery, operating time up to 40 h
- · External mains adapter standard
- · Net weight approx. 1,4 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

• 2 Stainless steel weighing plate, only for models with weighing plate size B, KERN EMS-A01



















Model	Weighing	Readability	Reproducibility	Linearity	Weighing plate	Option
	capacity			-		DAkkS Calibr. Certificate
	[Max]	[d]				DAkkS
KERN	g	g	g	g		KERN
EMS 300-3	300	0,001	0,002	± 0,005	Α	963-127
EMS 3000-2	3000	0,01	0,02	± 0,05	В	963-127
EMS 6K0.1	6000	0,1	0,1	± 0,3	В	963-128
EMS 12K0.1	12000	0,1	0,1	± 0,3	В	963-128
EMS 6K1	6000	1	1	± 3	В	963-128
EMS 12K1	12000	1	1	± 3	В	963-128









The compact all-round model with robust stainless steel weighing plate for us in laboratories, industries and for teaching

Features

- Thanks to its compact, robust design, its bright display and high precision, this range is ideal for use in laboratories, quality control, production as well in schools and universities for teaching e.g. biology, chemistry and physics
- Large, shock proof weighing plate made from stainless steel, can be removed and therefore is hygienic and easy to clean
- II Particularly flat design
- Ergonomically-optimised key pad with large keys and a high-contrast LCD screen
- Secure and non-slip positioning through rubber feet
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see test weights

Technical data

- · Backlit LCD display, digit height 22 mm
- Dimensions of weighing surface, stainless steel ${ \begin{tabular}{l} $ \bot$}$ Ø 105 mm
 - B W×D 120×120 mm, see larger picture
- Overall dimensions W×D×H
 225×160×50 mm (without draught shield)
- Optional battery operation, 2×1.5 V AA not included in scope of delivery, operating time up to 70 h
- External mains adapter standard
- Net weight 0,50 kg
- Permissible ambient temperature 5 °C/40 °C















Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Option DAkkS Calibr. Ce	rtificate
	[Max]	[d]				DAkkS	
KERN	g	g	g	g		KERN	
EHA 500-2	500	0,01	0,03	± 0,02	Α	963-127	
EHA 500-1	500	0,1	0,3	± 0,2	А	963-127	
EHA 1000-1	1000	0,1	0,3	± 0,2	В	963-127	
EHA 3000-1	3000	0,1	0,3	± 0,3	В	963-127	
EHA 3000-0	3000	1	3	± 2	В	963-127	



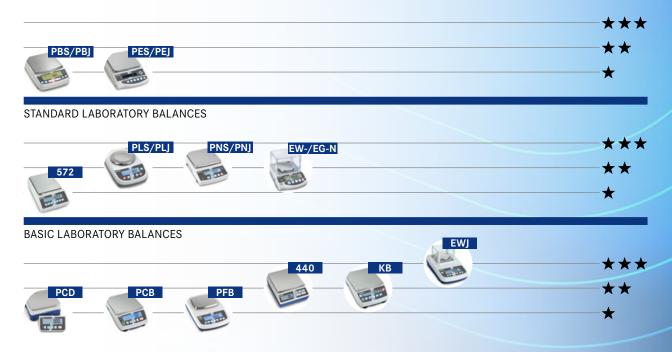
KERN PNS/PNJ Page 29

- > Excellent tuning fork weighing system
- > Easy to use
- > Automatic external and internal adjustment
- > Capacity display

Precision balances

Here you'll find a complete summary of the KERN laboratory scales series and their positioning within the precision scales segment on the basis of application, price-performance ratio and functional volume

PREMIUM LABORATORY BALANCES



Precision balances

KERN school balances

are entry-level devices in the field of laboratory balances, and they cover basic applications. They feature simple operation and the very best price/performance ratio. In addition they usually can be stacked and can also be operated by battery, as an alternative to mains power, which means that they have the flexibility to be used in different locations. See *school balances*

KERN Basic laboratory balances

are used in laboratory applications mostly as single-user balances for sample preparation, etc. They are fitted with all useful laboratory functions which will support the user in a helpful way. With their strain gauge measuring principle, they are used anywhere where individual weighings are carried out, such as, for example, checkweighing. These devices are often connected to printers or local Pcs using the standard, integrated RS-232 data interface.

KERN Basic standard laboratory balances

offer you all the tools you would need for effective and accurate work in your laboratory environment. All important laboratory functions such as a recipe weighing function or data interfaces are on board at all times. But above all, the high-quality measuring principles of these balances such as force compensation or tuning fork measuring principle,

allow them to be used in dosing procedures with very small weight changes and rapid display. In addition these balances are often fitted with automatic internal adjustment, which permits calibrated operation and means the balance can be used in any location.

KERN premium laboratory balances

are right at the top of the precision balance segment. The numerous equipment features of the standard balances are complemented by high-quality materials with robust, sturdy construction, high-quality, high-performance weighing systems, optimised operating sequences, speed benefits Tip: Together with the innovative KERN EasyTouch app, a premium laboratory balance supports its users in their typical workflows and increases the range of functions of the balance. In this way these scales can be operated more efficiently and quickly than devices from other quality classes. In particular these balances are used in demanding laboratory applications and anywhere where the environmental conditions are not ideal because of vibrations or other interference, but where, naturally, the balance is expected to provide accurate weighing results. Another field of application for these balances is the pharmaceutical industry, which is subject to particularly demanding requirements and authorities such as, for example, the FDA (Food and Drug Administration).







Transform your weighing system into a powerful weighing system! Using the KERN EasyTouch App even a simple scale can be made into a powerful weighing system, which offers a wide range of functions. You simply have to install the KERN EasyTouch App on your PC or tablet (Windows® or Android®), connect the balance (either with cable or wireless), activate the App and straightaway you will be able to control your balance using your PC or tablet. All details on page 127

If you have further questions on the subject of "Which balance will be best for my application?", then please ask your personal KERN segment specialists who will be happy to help you.

Quick-Finder Precision balances

Readability [d]	Weighing capacity [Max]	Model	Page	DAYS	M	CAL INT	CAL EXT	RS 232	GLP	GLP PRINTER	PCS	-√+ ⊙ Ͽ» TOL	BATT	ACCU
g g	g	KERN				Fc	r an exp	lanation	on the p	ictos, se	e front fl	ар		-
0,001	60	440-21A	24	1			•	•		•	•		•	0
0,001	100	PCB 100-3	22	1			•	•		•	•		•	0
0,001	120	PFB 120-3	23	1			•	•		•	•			
0,001	120	KB 120-3N	25	1			•	•		•	•			0
0,001	200 220	PFB 200-3 EW 220-3NM	30	1			•	•		•	•	•		0
0,001	220	EG 220-3NM	30	<u>'</u>	0	•		•		•	•	•		- 0
0,001	240	KB 240-3N	25	1			•	•		•	•			0
0,001	240	572-30	27	1			•	•		•	•			0
0,001	250	PCD 250-3	21	1			•	•		•	•		•	0
0,001	250	PCB 250-3	22	1			•	•		•	•		•	0
0,001	300	PFB 300-3	23	1			•	•		•	•			
0,001	300	EWJ 300-3	26	1		•		•		•	•			0
0,001	300	EWJ 300-3H 572-31	26 27	1		_	•	•	,	•	•			0
0,001	350	PCD 300-3	21	1			•	•		•	•		•	-
0,001	350	PCB 350-3	22	1			•	•		•	•			0
0,001	360	KB 360-3N	25	1			•	•		•	•			0
0,001	420	572-32	27	1			•	•		•	•			0
0,001	420	PLS 420-3F	28	1			•	•	•		•	•		
0,001	420	PLJ 420-3F	28	1		•		•	•		•	•		
0,001	420	EW 420-3NM	30	1			•	•		•	•	•		0
0,001	420 620	EG 420-3NM PNS 600-3	30 29	1	0	•	•	•		•	•	•		0
0,001	620	PNJ 600-3M	29	1	0	•		•	•		•			
0,001	620	EW 620-3NM	30	1			•	•		•	•	•		0
0,001	620	EG 620-3NM	30	1	0	•		•		•	•	•		0
0,001	620	PBS 620-3M	31	1			•	•	•		•	•		
0,001	620	PBJ 620-3M	31	1	0	•		•	•		•	•		,
0,001	620	PES 620-3M	32	1			•	•		•	•	•		0
0,001	620 720	PEJ 620-3M	32 28	1	0	•	•	•		•	•	•		0
0,001	720	PLS 720-3A PLJ 720-3A	28	<u>'</u>		•		•	•		•	•		
0,001	720	PLJ 720-3AM	28	1	0	•		•	•		•	•		-
0,001	1200	PLS 1200-3A	28	1			•	•	•		•	•		
0,001	1200	PLJ 1200-3A	28	1		•		•	•		•	•		
0,001	2100	PLJ 2000-3A	28	1		•		•	•		•	•		
0,01	200	PCB 200-2	22	1			•	•		•	•		•	0
0,01	200	440-33N	24	1			•	•		•	•			0
0,01	400 600	440-35N 440-35A	24	1			•	•		•	•		•	0
0,01	600	PFB 600-2	24	1			•	•		•	•			
0,01	600	EWJ 600-2SM	26	1	0	•				•	•			0
0,01	600	EWJ 600-2M	26	1	0	•		•		•	•			0
0,01	650	KB 650-2N	25	1			•			•	•			0
0,01	650	573-34	27	1			•	•		•	•			0
0,01	820	EW 820-2NM	30	1			•	•		•	•	•		0
0,01	1000	PCB 1000-2	22	1			•	•		•	•			0
0,01	1200 1200	PFB 1200-2 KB 1200-2N	23 25	1			•	•		•	•			0
0,01	1600	572-33	27	1			•	•		•	•			0
0,01	2000	PFB 2000-2	23	1			•	•		•	•			
0,01	2000	KB 2000-2N	25	1			•	•		•	•			0
0,01	2200	EW 2200-2NM	30	1			•	•		•	•	•		0
0,01	2200	EG 2200-2NM	30	1	0	•		•		•	•	•		0
0,01	2200	PES 2200-2M	32	1			•	•		•	•	•		0
0,01	2200	PEJ 2200-2M	32	1	0	•		•		•	•	•		0
0,01	2400 2400	KB 2400-2N 572-35	25 27	1			•	•		•	•			0
0,01	2500	PCD 2500-2	21	1			•	•		•	•		•	0
0,01	2500	PCB 2500-2	22	1			•	•		•	•		•	0
0,01	3000	PFB 3000-2	23	1			•	•		•	•			
0,01	3000	EWJ 3000-2	26	1		•		•		•	•			0
0,01	3000	572-37	27	1			•	•		•	•			0
0,01	3200	PNS 3000-2	29	1			•	•		•	•			
0,01	3200	PNJ 3000-2M	29	1	0	•		•	•		•			
0,01	3500	PCD 3000-2	21	1			•	•		•	•		•	0
0,01	3500 3600	PCB 3500-2 KB 3600-2N	22 25	1			•	•		•	•			0
0,01		572-39	27	1			•	•		•	•			0
0,01	4200													

19

Quick-Finder Precision balances

Readability	Weighing capacity	Model	Page	DAYS	M	CAL INT	CAL EXT	RS 232	GLP	GLP PRINTER	PCS	-√+ ③ Ͽ;) TOL	BATT	ACCU
[d] g	[Max] g	KERN				Fc	r an exp	lanation	on the n	ictos se	e front f	an		
0,01	4200	PLJ 4200-2F	28	1		•		•	•		•	•		
0,01	4200	EW 4200-2NM	30	1			•	•		•	•	•		0
0,01	4200	EG 4200-2NM	30	1	0	•		•		•	•	•		
0,01	4200	PBS 4200-2M	31	1			•	•	•		•	•		
0,01	4200	PBJ 4200-2M	31	1	0	•		•	•		•	•		
0,01	4200	PES 4200-2M	32	1			•	•		•	•	•		0
0,01	4200	PEJ 4200-2M	32	1	0	•		•		•	•	•		0
0,01	6200	PLS 6200-2A	28	1			•	•	•		•	•		
0,01	6200	PLJ 6200-2A	28	1		•					•	•		
0,01	6200	PLJ 6200-2AM	28	1	0	•		•	•		•	•		
0,01	6200	EW 6200-2NM	30	1		•					•	•		0
0,01	6200	PBS 6200-2M	31	1			•	•	•		•	•		
0,01	6200	PBJ 6200-2M	31	1	0	•					•	•		
0,01	6200	PES 6200-2M	32	1			•	•		•	•	•		0
0,01	8200	PLS 8000-2A	28	1	-		•				•	•		
0,05	6000	PFB 6000-2	23	1			•	•		•	•			
0,05	10000	KB 10K0.05N	25	1			•				•			0
0,05	12000	572-45	27	1			•	•		•	•			0
0,05	20000	572-55	27	1			•	•		•	•			0
0,1	400	440-43N	24	1			•	•		•	•		•	0
0,1	1000	PCB 1000-1	22	1			•	•		•	•		•	0
0,1	1000	440-45N	24	1			•				•		•	0
0,1	2000	PCB 2000-1	22	1			•				•		•	0
0,1	2000	440-47N	24	1			•				•		•	0
0,1	4000	440-49N	24	1			•	•		•	•		•	0
0,1	6000	PCD 6K-4	21	1			•	•		•	•		•	0
0,1	6000	PCB 6000-1	22	1			•	•		•	•		•	0
0,1	6000	440-49A	24	1			•	•		•	•		•	0
0,1	6000	PFB 6000-1	23	1			•	•		•	•			
0,1	6000	EWJ 6000-1SM	26	1	0	•					•			0
0,1	6000	EWJ 6000-1M	26	1	0	•		•		•	•			0
0,1	6500	KB 6500-1N	25	1			•				•			0
0,1	6500	573-46	27	1			•	•			•			0
0,1	8200	PBJ 8200-1M	31	1	0	•		•	•		•	•		
0,1	10000	PCD 10K0.1	21	1			•	•		•	•		•	0
0,1	10000	PCB 10000-1	22	1			•				•		•	0
0,1	10000	KB 10000-1N	25	1			•	•		•	•			0
0,1	10000	572-43	27	1			•	•		•	•			0
0,1	12000	PNS 12000-1	29	1			•				•			
0,1	12000	PNJ 12000-1M	29	1	0	•		•			•			
0,1	12000	EW 12000-1NM	30	1			•	•		•	•	•		0
0,1	15000	PES 15000-1M	32	1			•	•		•	•	•		0
0,1	16000	572-49	27	1		-	•	•		•	•			0
0,1	20000	PLS 20000-1F	28	1			•	•	•		•	•		
0,1	24000	572-57	27	1			•	•		•	•			0
0,1	31000	PES 31000-1M	32	1			•	•		•	•	•		0
1	4000	440-51N	24	1			•	•		•	•		•	0
1	6000	PCB 6000-0	22	1			•	•		•	•		•	0
1	6000	440-53N	24	1			•	•		•	•		•	0
1	10000	PCD 10K-3	21	1			•	•		•	•		•	0

■ = standard

O = option

03









High-resolution precision balance with removable display for maximum flexibility

Features

- · Laboratory balance with separate platform: Ideal when working in a glove bag or fume cupboard. Particularly practical for weighing toxic, volatile or contaminated substances
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- In Draught shield standard for models with weighing plate size A, weighing space W×D×H 146×146×80 mm
- · Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 21 mm
- Dimensions weighing surface
- A Ø 105 mm
- **B** W×D, see larger picture
- · Weighing plate material
- A plastic, with conductive lacquer
- **B** Stainless Steel
- · Dimensions of display device W×D×H 165×280×141 mm
- · Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- · Overall dimensions W×D×H, without draught shield 165×280×75 mm
- · Cable length of display device approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN PCD-A05S05
- 2 Stand to elevate display device, height of stand approx. 250 mm, KERN PCD-A03
- · Internal rechargable battery pack, operating time up to 24 h without backlight, charging time approx. 10 h, KERN PCD-A04
- 3 Foot switch, ideal when the application requires two free hands. TARE or PRINT function can be selected. Scope of delivery: foot switch, junction box, connection cable. For the PRINT function you will need the RS-232 interface cable, KERN YKF-01
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01
- · Individual header data: the free software can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N and YKE-01 (in combination with YKI-02)
- · Further details, plenty of further accessories and suitable printers see Accessories











































Model	Weighing	Readability	Reproducibility	Linearity	Weighing plate	Option
	capacity					DAkkS Calibr. Certificate
	[Max]	[d]				DAkkS
KERN	g	g	g	g		KERN
PCD 250-3	250	0,001	0,002	± 0,005	А	963-127
PCD 300-3	350	0,001	0,002	± 0,005	Α	963-127
PCD 2500-2	2500	0,01	0,02	± 0,05	В	963-127
PCD 3000-2	3500	0,01	0,02	± 0,05	В	963-127
PCD 6K-4	6000	0,1	0,1	± 0,3	В	963-128
PCD 10K0.1	10000	0,1	0,1	± 0,3	В	963-128
PCD 10K-3	10000	1	1	+ 3	В	963-128





BASIC





The standard in laboratory

Features

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- · Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- · With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- · Plus/minus weighing procedures
- · Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 90×40 mm
- · Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 15 mm
- · Dimensions of weighing surface
 - A Ø 81 mm
 - Ø 105 mm
 - W×D 130×130 mm
 - M×D 150×170 mm, see larger picture
- · Weighing plate material
 - A plastic, with conductive lacquer
 - B, C, D Stainless Steel
- Overall dimensions W×D×H 163×245×79 mm (without draught shield)
- · Optional battery operation, 9 V block not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, for models with weighing plate size
 - A KERN PCB-A02S05
 - **B** KERN PCB-A03S05
 - KERN PCB-A04S05
 - KERN PCB-A05S05
- · Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN PCB-A01
- · RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01
- · Balance Connection Software, KERN SCD-4.0
- · Individual header data: the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- · Further details, plenty of further accessories and suitable printers see Accessories









































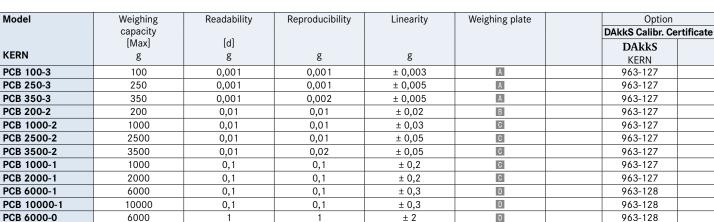




















Quick-display precision balance with user-friendly concept of operation mode - now with larger housing for more stability

Features

- · Easy to use: All primary functions have their own key on the keypad
- Compact size, practical for small spaces
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- · Draught shield standard for models with weighing plate size A and B, weighing space W×D×H 158×143×64 mm

Technical data

- · Backlit LCD display, digit height 15 mm
- Dimensions weighing surface, Stainless Steel ■ Ø 80 mm
 - Ø 120 mm
 - W×D 155×145 mm, see larger picture
- Overall dimensions W×D×H 210×315×90 mm (without draught shield)
- Net weight approx. 2,0 kg
- Permissible ambient temperature 15 °C/30 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN PFB-A12S05
- II Separate second display, ideal for training and demonstration purposes in laboratories or industry, not permitted for direct sales to the public, KERN PFB-A08
- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase
- Bluetooth 2.0: KERN PFB-A10 Bluetooth 4.0: KERN PFB-A11
- · Further details, plenty of further accessories and suitable printers see Accessories



























8	
BT 4.0	
PFB-A11	

			r	FD-AIU PFD-AII		
Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Option
						DAkkS Calibr. Certificate
	[Max]	[d]				DAkkS
KERN	g	g	g	g		KERN
PFB 120-3	120	0,001	0,001	± 0,003	Α	963-127
PFB 200-3	200	0,001	0,002	± 0,005	Α	963-127
PFB 300-3	300	0,001	0,002	± 0,005	Α	963-127
PFB 600-2	600	0,01	0,01	± 0,03	В	963-127
PFB 1200-2	1200	0,01	0,01	± 0,03	В	963-127
PFB 2000-2	2000	0,01	0,02	± 0,05	В	963-127
PFB 3000-2	3000	0,01	0,02	± 0,05	В	963-127
PFB 6000-2	6000	0,05	0,05	± 0,15	C	963-128
PFB 6000-1	6000	0,1	0,1	± 0,3	С	963-128









The classic balance in the laboratory

Features

- · Compact size, practical for small spaces
- · Percentage determination: makes it possible to store a given weight value (100 %) and to determine deviations from this target value
- · Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 90×40 mm
- · Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 15 mm
- · Dimensions weighing surface
 - A Ø 81 mm
 - B Ø 105 mm
 - © W×D 130×130 mm
 - W×D 150×170 mm, see larger picture
- · Weighing plate material
- A plastic, with conductive lacquer
- B, C, D Stainless Steel
- Overall dimensions (without draught shield) W×D×H 165×230×80 mm
- · Optional battery operation, 9 V block, standard, operating time up to 20 h, AUTO-OFF function to preserve the battery
- · Net weight approx. 0,95 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, for models with weighing plate size
 - A KERN 440-210-002S05
 - B KERN 440-330-002S05
 - KERN 440-450-002S05
 - KERN 440-530-002S05
- · Internal rechargable battery pack, operating time up to 20 h, without backlight, charging time approx. 10 h, KERN FCB-A01
- Hook for underfloor weighing, KERN 440-A01
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01
- · Individual header data: the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- · Further details, plenty of further accessories and suitable printers see Accessories































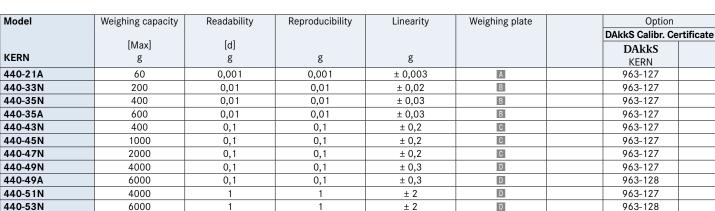




















Compact precision balance with large weighing capacity

Features

- · Thanks to the many typical laboratory functions, such as, for example, recipe function, percentage determination, combined with the high level of precision, the KERN KB-N is a reliable partner for day-to-day work in the laboratory
- User guidance step by step on display by Yes/No dialogue
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- · Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 90×40 mm
- Model with resolution > 240,000 Pt.: Level indicator to level the balance precisely
- · Protective working cover included with delivery

Technical data

- · Backlit LCD display, digit height 9 mm
- · Dimensions of weighing surface
- Ø 81 mm, plastic, with conductive lacquer
- B W×D 130×130 mm, stainless steel
- W×D 150×170 mm, stainless steel, see larger picture
- Overall dimensions W×D×H 167×250×85 mm (without draught shield)
- · Net weight 1,00 kg
- Permissible ambient temperature 10 °C/40 °C

Accessories

- Protective working cover, scope of delivery: 5 items, for models with weighing plate size
- M KERN PCB-A02S05
- **B** KERN PCB-A04S05
- **III** KERN PCB-A05S05
- · Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N
- II Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD





























Model	Weighing	Readability	Reproducibility	Linearity	Weighing plate	Resolution	Option	
	capacity						DAkkS Calibr. Certific	cate
	[Max]	[d]					DAkkS	
KERN	g	g	g	g			KERN	
KB 120-3N	120	0,001	0,001	± 0,003	Α	120.000	963-127	
KB 240-3N	240	0,001	0,001	± 0,003	А	240.000	963-127	
KB 360-3N	360	0,001	0,002	± 0,005	А	360.000	963-127	
KB 650-2N	650	0,01	0,01	± 0,03	В	65.000	963-127	
KB 1200-2N	1200	0,01	0,01	± 0,03	В	120.000	963-127	
KB 2000-2N	2000	0,01	0,01	± 0,03	В	200.000	963-127	
KB 2400-2N	2400	0,01	0,01	± 0,03	В	240.000	963-127	
KB 3600-2N	3600	0,01	0,02	± 0,05	В	360.000	963-127	
KB 10K0.05N	10000	0,05	0,05	± 0,15	C	200.000	963-128	
KB 6500-1N	6500	0,1	0,1	± 0,3	C	65.000	963-128	
KB 10000-1N	10000	0,1	0,1	± 0,3	C	100.000	963-128	

II ONLY WHILE STOCKS LAST!













High-quality precision balance with automatic internal adjustment, also with EC type approval [M]

Features

- · Easy to use: All primary functions have their own key on the keypad
- · Automatic internal adjustment, time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- · KERN EWJ-H/-M: USB data interface for transferring weighing data to the PC
- KERN EWJ-SM: Cost-effective variant without data interfaces
- II KERN EWJ 300-3, 600-2M, 600-2M: Draught shield standard, weighing space W×D×H 134×128×80 mm
- Z KERN EWJ 300-3H: Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 155×175×217 mm
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface
- Ø 80 mm
- Ø 120 mm, see larger picture
- **W**×D 155×145 mm
- · Overall dimensions W×D×H 220×315×90 mm (without draught shield)* 220×340×180 mm (incl. draught shield)** 220×340×321 mm (incl. draught shield)***
- · Permissible ambient temperature KERN EWJ: 15 °C/35 °C KERN EWJ-M: 15 °C/30 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN EWJ-A04S05
- · Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 12 h, KERN KFB-A01
- KERN EWJ-H/-M: Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access
- RS-232/WiFi adapter for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD

































	•									
Model	Weighing	Readability	Verification	Minimal load	Linearity	Weighing		(Option	
	capacity		value			plate	Verifica	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]			MIII		DAkkS	
KERN	g	g	g	g	g		KERN		KERN	
EWJ 300-3**	300	0,001	-	-	± 0,005	А	-		963-127	
EWJ 300-3H***	300	0,001	-	-	± 0,005	Α	-		963-127	
EWI 3000-2*	3000	0.01	_	_	+ 0.05	В	_		963-127	

	Verification at the factory, we need to know the full address of the location of use.										
EWJ 600-2SM**	600	0,01	0,1	0,5	± 0,03	В	965-216	963-127			
EWJ 600-2M**	600	0,01	0,1	0,5	± 0,03	В	965-216	963-127			
EWJ 6000-1SM*	6000	0,1	1	5	± 0,3	C	965-217	963-128			
EWJ 6000-1M*	6000	0,1	1	5	± 0,3	C	965-217	963-128			









Technical data

- · Large backlit LCD display, digit height 18 mm
- · Dimensions weighing surface, Stainless Steel
 - Ø 106 mm
 - Ø 150 mm
 - W×D 160×200 mm, see larger picture
- Net weight A, B approx. 2,4 kg approx.
- Overall dimensions W×D×H 180×310×85 mm
- Permissible ambient temperature 10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN 572-A02S05
- · Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01
- · Loop and hook for underfloor weighing, for models with [d] \geq {0,01 g, KERN 572-A03
- II Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, for models with weighing plate size A, KERN 572-A05

All-rounder e.g. as precision balance in the laboratory or in harsh industrial applications

Features

- · Thanks to the many typical laboratory functions, such as, for example, recipe function, percentage determination, GLP record keeping, combined with the high level of precision, the KERN 572 is a reliable partner for day-to-day work in the laboratory
- · The robust version, typical industrial functions, such as piece-counting, vibrationfree weighing and the large weighing ranges also make these balances ideal for all industrial applications, where a high level of precision is required
- · Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar

- · The robust aluminium diecast housing maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- · Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 157×43 mm
- Model with resolution > 240,000 Pt.: Level indicator to level the balance precisely
- · Loop for underfloor weighing, standard for models with [d] < 0.01 g
- · Protective working cover included with delivery































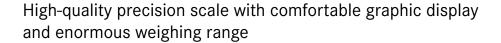






Model	Weighing	Readability	Reproducibility	Linearity	Resolution	Weighing plate	Option
	capacity						DAkkS Calibr. Certificate
	[Max]	[d]					DAkkS
KERN	g	g	g	g	Points		KERN
572-30	240	0,001	0,001	± 0,003	240.000	А	963-127
572-31	300	0,001	0,002	± 0,005	300.000	Α	963-127
572-32	420	0,001	0,002	± 0,005	420.000	Α	963-127
573-34	650	0,01	0,01	± 0,03	65.000	В	963-127
572-33	1600	0,01	0,01	± 0,03	160.000	В	963-127
572-35	2400	0,01	0,01	± 0,03	240.000	В	963-127
572-37	3000	0,01	0,02	± 0,05	300.000	В	963-127
572-39	4200	0,01	0,02	± 0,05	420.000	В	963-127
572-45	12000	0,05	0,05	± 0,15	240.000	С	963-128
572-55	20000	0,05	0,1	± 0,25	400.000	С	963-128
573-46	6500	0,1	0,1	± 0,3	65.000	С	963-128
572-43	10000	0,1	0,1	± 0,3	100.000	С	963-128
572-49	16000	0,1	0,1	± 0,3	160.000	С	963-128
572-57	24000	0.1	0.1	± 0.3	240,000	С	963-128





Features

- · Rapid and efficient operation thanks to the graphics display
- 11 Convenient recipe-weighing: with the recipe database, in which up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- Simple, clear user interface on the display in the following languages: German, English, French, Italian, Spanish, Portuguese
- Z KERN PLJ 2000-3A: High-quality milligram balance with enormous weighing range up to 2100 g - ideal for large samples or heavy tare containers
- · KERN PLJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- · Dosage aid: high stability mode and other filter settings can be selected
- · Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
- · Draught shield standard for models with weighing plate size A, weighing space Ø×H 150×60 mm
- · Protective working cover included with delivery









Technical data

- · Backlit LCD display, digit height 15 mm
- · Dimensions weighing surface, stainless steel ■ Ø 110 mm
 - Ø 160 mm, see larger picture **W×D 200×175 mm**
- Permissible ambient temperature KERN PLS, PLJ: 5 °C/35 °C,35 °C KERN PLJ-M: 15 °C/30 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN PLJ-A01S05
- I Hook for underfloor weighing, KERN PLI-A02
- Set for density determination of liquids and solids with density > 1 for models with [d] = 0,001 g, KERN ALT-A02
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept which includes the following validation services: Installation Qualification (IQ), Operating Qualification (OQ), Further details see 208

STANDARD

































M
+3 DAYS

PLJ PLS			3	PLS-F/ PLJ-F	PLS-A/ PLJ-A		PLJ-M				
Model	Weighing	Readability	Verification	Minimal load	Linearity	Weighing				Option	
	capacity		value			plate		Verifica	tion	DAkkS Calibr. Ce	ertificate
	[Max]	[d]	[e]	[Min]				MO		DAkkS	
KERN	g	g	g	g	g			KERN		KERN	
PLS 420-3F	420	0,001	-	-	± 0,004	Α		-		963-127	
PLS 720-3A	720	0,001	-	-	± 0,002	Α		-		963-103	
PLS 1200-3A	1200	0,001	-	-	± 0,003	Α		-		963-103	
PLS 4200-2F	4200	0,01	-	-	± 0,04	В		-		963-127	
PLS 6200-2A	6200	0,01	-	-	± 0,03	В		-		963-104	
PLS 8000-2A	8200	0,01	-	-	± 0,04	В		-		963-104	
PLS 20000-1F	20000	0,1	-	-	± 0,4	С		-		963-128	
PLJ 420-3F	420	0,001	-	-	± 0,003	A		-		963-127	
PLJ 720-3A	720	0,001	-	-	± 0,002	Α		-		963-103	
PLJ 1200-3A	1200	0,001	-	-	± 0,003	A		-		963-103	
PLJ 2000-3A	2100	0,001	-	-	± 0,004	Α		-		963-103	
PLJ 4200-2F	4200	0,01	-	-	± 0,04	В		-		963-127	
PLJ 6200-2A	6200	0,01	-	-	± 0,03	В		-		963-104	
Note	: For application			olease order ve					date is	not possible.	
	Verification at the factory, we need to know the full address of the location of use.										

 $\pm 0,002$

 $\pm 0,03$

Α

PLJ 720-3AM

PLJ 6200-2AM

720

0,001

0,01

0,01

0,02

0,5

963-103

965-216

965-217







The new standard in the laboratory with robust tuning fork weighing system

Features

- · KERN PNJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- KERN PNS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- · High-quality tuning fork measuring system for steady weight values and continuous
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- · Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- · Compact size, practical for small spaces

- · Large, shock proof weighing plate made of Stainless Steel
- · Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 172×171×160 mm, for models with weighing plate size A
- · Protective working cover included with delivery

Technical data

- · Large LCD display, digit height 16,5 mm
- · Dimensions weighing surface, Stainless Steel
 - Ø 140 mm
- B W×D 190×190 mm, see larger picture
- Overall dimensions W×D×H
- A 196×293×266 mm
- **B** 196×293×89 mm
- · Net weight
 - A approx. 2,2 kg
 - B approx. 2,8 kg
- Permissible ambient temperature 5 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN PNJ-A01S05
- · RS-232/Bluetooth adapter to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., KERN YKI-02
- · RS-232/WiFi adapter for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01
- II Gemstones plate, aluminium with practical spout, W×D×H 123×72×15 mm, KERN AEJ-A05
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept which includes the following validation services: Installation Qualification (IQ), Operating Qualification (OQ), Further details see 208
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD	
	1



































Model	Weighing	Readability	Verification	Minimal load	Linearity	Weighing		Option		Option			
	capacity		value			plate		Verification		Verification DAkkS Calibr. C		DAkkS Calibr. Certi	ficate
	[Max]	[d]	[e]	[Min]				MIII		DAkkS			
KERN	g	g	g	g	g			KERN		KERN			
PNS 600-3	620	0,001	-	-	± 0,004	А		-		963-103			
PNS 3000-2	3200	0,01	-	-	± 0,02	В		-		963-127			
PNS 12000-1	12000	0.1	-	_	± 0.2	В		_		963-128			

	Verification at the factory, we need to know the full address of the location of use.											
PNJ 600-3M	PNJ 600-3M 620 0,001 0,01 0,02 ± 0,004											
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	В	965-216	963-127				
PNJ 12000-1M	PNJ 12000-1M 12000 0,1 1 5 ± 0,2 B 965-217 963-128											















Accessories

- · Protective working cover, scope of delivery: 5 items, for models with weighing plate size A, B KERN EG-A05S05 KERN EG-A09S05
- · Internal rechargeable battery pack, operating time up to 32 h without backlight, charging time approx. 12 h, for models with weighing plate size

A, B KERN EG-A04

© KERN EG-A06

Note: If the rechargable battery pack is retrofitted to a verified balance, it must be recalibrated

- Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 158×130×78 mm, for models with weighing plate size M, KERN EG-A03
- Loop for underfloor weighing, for models with weighing plate size A, B KERN EG-A07 **©** KERN EG-A08
- · Minimum weight of sample, Further details see 207, KERN 969-103
- Equipment qualification, Further details see 208
- · Further details, plenty of further accessories and suitable printers see Accessories



The classic balance with robust tuning fork measuring system

Features

- II KERN EG-N: Internal adjustment in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN EW-N: Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- · Stable temperature behaviour
- · Short stabilisation time
- · Shock proof construction
- · High corner load performance
- GLP/ISO record keeping of weight values
- · Totalising of pieces when counting

- · Draught shield standard for models with weighing plate size A, weighing space W×D×H 158×130×78 mm
- · Protective working cover included with delivery

Technical data

- Large LCD display, digit height 17 mm
- · Dimensions weighing surface, Stainless Steel ■ Ø 118 mm, see larger picture ■ W×D 170×140 mm, W×D 180×160 mm
- Overall dimensions W×D×H, without draught shield A, B 182×235×75 mm, 192×275×87 mm
- Net weight approx. 1,4 kg
- Permissible ambient temperature 10 °C/30 °C

STANDARD







































Model	Weighing	Readability	Verification	Minimal load	Linearity	Weighing	Option			
	capacity		value			plate	Verification DA		DAkkS Calibr. Certificate	
	[Max]	[d]	[e]	[Min]			M		DAkkS	
KERN	g	g	g	g	g		KERN		KERN	
EW 220-3NM	220	0,001	-	-	± 0,002	Α	-		963-127	
EW 420-3NM	420	0,001	-	-	± 0,003	Α	-		963-127	
EW 620-3NM	620	0,001	-	-	± 0,003	Α	-		963-103	
EW 820-2NM	820	0,01	-	-	± 0,01	В	-		963-127	
EW 2200-2NM	2200	0,01	-	-	± 0,01	C	-		963-127	
EW 4200-2NM	4200	0,01	-	-	± 0,02	C	-		963-127	
EW 6200-2NM	6200	0,01	-	-	± 0,03	C	-		963-104	
EW 12000-1NM	12000	0,1	-	-	± 0,2	C	-		963-128	

	verification at the factory, we need to know the full address of the location of use.											
EG 220-3NM	220	0,001	0,01	0,02	± 0,002	Α	965-216 🗓	963-127				
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	Α	965-216 🗓	963-127				
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	Α	965-201 🗓	963-103				
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	С	965-216 🗓	963-127				
FG 4200-2NM	4200	0.01	0.1	0.5	+ 0.02	С	065-216 ₪	963-127				



Multifunctional laboratory balance with single-cell weighing system, also with EC type approval [M]

Features

- · KERN PBJ: Internal adjustment in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN PBS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- · Metal housing: robust and sturdy
- · Dosage aid
- Weighing with tolerance range (checkweighing): a visual signal helps with portioning, dispensing or grading
- Totalising of weights
- · Identification number: 4 digits, printed on calibration protocol freely programmable
- · Automatic data output to the PC/printer each time the balance is steady

- 11 Draught shield standard for models with [d] = 0,001 g, weighing space $W \times D \times H$ 180×193×87 mm
- · Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 14 mm
- Dimensions weighing surface, Stainless Steel M×D 108×105 mm
- B W×D 170×180 mm, see larger picture
- Overall dimensions W×D×H 209×322×78 mm (without draught shield)
- · Net weight approx. 3,2 kg
- · Permissible ambient temperature 10 °C/30 °C







Accessories

- · Protective working cover, scope of delivery: 5 items, for models with weighing plate size M KERN PBS-A01S05
 - **B** KERN PBS-A02S05
- Set for density determination of liquids and solids with density ≥ 1, for models with weighing plate size
- A KERN PBS-A04
- **B** KERN PBS-A03
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KFRN 969-103
- · Equipment qualification: compliant qualification concept which includes the following validation services: Installation Qualification (IQ), Operating Qualification (OQ), Further details see 208
- Further details, plenty of further accessories and suitable printers see Accessories
- Single-cell advanced technology:
- · Fully automatic manufactured weighing cell from one piece of material
- · Stable temperature behaviour
- Short stabilisation time: steady weight values within approx. 3 s under laboratory conditions
- · Shock proof construction
- · High corner load performance

STANDARD







































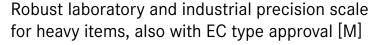


FACTORY

Model	Weighing	Readability	Verification	Minimal load	Linearity	Weighing		Option			
	capacity		value			plate	ate Verification DAkkS Calibr. Ce		rtificate		
	[Max]	[d]	[e]	[Min]				M		DAkkS	
KERN	g	g	g	g	g			KERN		KERN	
PBS 620-3M	620	0,001	-	-	± 0,002	Α		-		963-103	
PBS 4200-2M	4200	0,01	-	-	± 0,02	В		-		963-127	
PBS 6200-2M	6200	0.01	_	_	± 0.02	В		_		963-104	

	Verification at the factory, we need to know the full address of the location of use.											
PBJ 620-3M	BJ 620 0,001 0,01 0,1 ± 0,002											
PBJ 4200-2M	PBJ 4200-2M 4200 0,01 0,1 0,5 ± 0,02											
PBJ 6200-2M	6200	0,01	0,1	1	± 0,02	В	965-202 🗓	963-104				
PBI 8200-1M	BJ 8200-1M 8200 0,1 1 5 ± 0,2 3 965-217 (II) 963-128											





Features

- KERN PEJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- · KERN PES: Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- · Metal housing: robust and sturdy
- Weighing with tolerance range (checkweighing): Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioing, dispensing or grading
- Draught shield standard for models with [d] = 0,001 g, weighing space W×D×H 170×150×100 mm

- · Underfloor weighing: load support with hook on the underside of the balance, standard for models with [d] = 0,001 g, hook not included with the delivery
- A, B Protective working cover included with delivery

Technical data

- · Fluorescent display, bright with high contrast, digit height 14 mm
- · Dimensions weighing surface, Stainless Steel A W×D 140×120 mm
- B W×D 200×200 mm, see larger picture W×D 250×220
- · Overall dimensions W×D×H, without draught shield
 - A 220×330×90 mm
 - **B** 220×339×80 mm
 - © 260×330×113 mm







- Net weight approx. A 4,0 kg, B 4,4 kg,
- Permissible ambient temperature 10 °C/30 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN PES-A04S05
- KERN PES: Internal rechargeable battery pack, operating time up to 32 h, without backlight, charging time approx. 15 h, KERN PES-A01
- · Loop for underfloor weighing, for models with weighing plate size B, KERN PES-A03
- Relay output to connect relays, signal lamps, valves etc., 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02
- · RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- · Equipment qualification: compliant qualification concept which includes the following validation services: Installation Qualification (IQ), Operating Qualification (OQ), Further details see 208
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD



Model	Weighing	Readability	Verification	Minimal load	Linearity	Weighing	Option			
	capacity		value			plate	Verification		DAkkS Calibr. Certificate	
	[Max]	[d]	[e]	[Min]			M		DAkkS	
KERN	g	g	g	g	g		KERN		KERN	
PES 620-3M	620	0,001	-	-	± 0,003	Α	-		963-103	
PES 2200-2M	2200	0,01	-	-	± 0,02	В	-		963-127	
PES 4200-2M	4200	0,01	-	-	± 0,02	В	-		963-127	
PES 6200-2M	6200	0,01	-	-	± 0,03	В	-		963-104	
PES 15000-1M	15000	0,1	-	-	± 0,2	В	-		963-128	
PES 31000-1M	31000	0,1	-	-	± 0,4	C	-		963-128	

	Verification at the factory, we need to know the full address of the location of use.											
PEJ 620-3M	620	0,001	0,01	0,1	± 0,003	Α	965-201 🗓	963-103				
PEJ 2200-2M	2200	0,01	0,1	0,5	± 0,02	В	965-216 🔳	963-127				
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	В	965-216	963-127				



KERN ADB 200-4 Page 34

- > Now with higher weighing range 220 g!
- > External adjustment
- > Large glass draught shield with 3 sliding doors
- > Large weighing capacity at a top price

Analytical balances

Quick-Finder Analytical balances

Readability	Weighing capacity	Model	Page	DAYS	M	CAL INT	CAL EXT	RS 232	GLP	GLP	RECIPE
d]	[Max]										
ng	g	KERN			For ar	n explana	tion on t	he pictos	s, see fro	nt flap	
0,01	101	ABT 100-5NM	39	1	0	•		•	•		•
0,01	135	ABP 100-5M	41	1	0	•		•	•		•
0,01	210	ALJ 210-5A	36	1		•		•	•		•
0,01	220	ABP 200-5M	41	1	0	•		•	•		•
0,01 0,1	42 120	ABT 120-5DNM	39	1	0	•		•	•		•
0,01 0,1	52 120	ABP 100-5DM	40	1	0	•			•		•
0,01 0,1	82 220	ALJ 200-5DA	35	1		•				•	•
0,01 0,1	82 220	ABT 220-5DNM	39	1	0	•		•	•		•
0,01 0,1	102 220	ABP 200-5DM	40	1	0	•					•
0,1	82	ABS 80-4N	37	1			•	0		•	•
0,1	82	ABJ 80-4NM	37	1		•		0		•	•
0,1	82	ACS 80-4	37	1			•	•		•	•
0,1	82	ACJ 80-4M	37	1	0	•		•		•	
0,1	120	ADB 600-C3 ♥	34	1			•	•		•	
0,1	120	ADB 100-4	34	1			•	•		•	
0,1	120	ADJ 600-C3 ◆	34	1		•					
0,1	120	ADJ 100-4	34	1		•		•		•	
0,1	120	ABS 120-4N	37	1			•	0		•	•
0,1	120	ABJ 120-4NM	37	1		•		0			•
0,1	120	ACS 100-4	37	1			•	•			
0,1	120	ACJ 100-4M	37	1	0	•		•		•	•
0,1	120	ABT 120-4NM	39	1	0	•		•	•		•
0,1	120	ABP 100-4M	40	1	0	•			•		
0,1	160	ALS 160-4A	35	1			•	•			
0,1	160	ALJ 160-4A	35	1		•		•			•
0,1	160	ALJ 160-4AM	35	1	0	•					•
0,1	210	ADJ 200-4	34	1		•		•			
0.1	220	ADB 200-4	34	1			•				
0,1	220	ABS 220-4N	37	1			•	0			•
0,1	220	ABJ 220-4NM	37	1		•		0			•
0,1	220	ACS 200-4	37	1			•	•			
0,1	220	ACJ 200-4M	37	1	0	•					•
0,1	220	ABT 220-4NM	39	1	0						•
0,1	220	ABP 200-4M	40	1	0	•					
0,1	250	ALS 250-4A	35	1			•	•			
0,1	250	ALJ 250-4A	35	1		•		•			•
0,1	250	ALJ 250-4AM	35	1	0	•					•
0,1	310	ALJ 310-4A	35	1		•		•		•	•
0,1	320	ABS 320-4N	35	1		•	•	0			
0,1	320		37	1		•	•	0			•
		ABJ 320-4NM	37	1		_	•	•		•	
0,1	320	ACS 300-4		1			•				
0,1	320	ACJ 300-4M	37	1	0	•		•			
0,1	320	ABT 320-4NM	39		0	•		•			•
0,1	320 510	ABP 300-4M ALJ 500-4A	40 35	1	0	•					















The price leader in analytical balances with internal or external calibration - now as version with [Max] 220 g!

Features

- · New model with incredibly high resolution. Ideal if extremely precise weighing is required
- KERN ADJ: Automatic internal adjustment in the case of a change in temperature ≥ 2 °C or timecontrolled every 3 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ADB: Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- II ADB 600-C3: Compact, space-saving carat balance with a readout of 0.001 ct and a weighing range of 600 ct. The high level of accuracy saves hard cash wherever you are weighing valuable precious stones
- · Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- · Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- · Compact size, practical for small spaces
- · Simple and convenient 6-key operation

Technical data

- Large backlit LCD display, digit height 16 mm
- Dimensions weighing surface, stainless steel, Ø 90 mm
- Overall dimensions (incl. draught shield) W×D×H KERN ADB/ADJ: 230×310×330 mm KERN ADB-C/ADJ-C: 230×310×210 mm
- Weighing space W×D×H KERN ADB/ADJ: 170×160×205 mm KERN ADB-C/ADJ-C: 170×160×110 mm
- Permissible ambient temperature 10 °C/30 °C

Accessories

- 2 Set for density determination of liquids and solids with density $\leq \geq 1$, the density is indicated directly on the display, KERN YDB-03
- Ill Ioniser to neutralise electrostatic charge, KERN YBI-01A
- Gemstones plate, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05
- Is Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- · Equipment qualification: compliant qualification concept which includes the following validation services: Installation Qualification (IQ), Operating Qualification (OQ), Further details see 208
- · Further details, plenty of further accessories and suitable printers see Accessories

ΩPT	rın	N

































Model	Weighing capacity	Readability	Reproducibility	Linearity	Net weight	Option
KERN	[Max]	[d] mg	mg	mg	approx. kg	DAkkS Calibr. Certificate DAkkS KERN
ADB 100-4	120	0,1	0,2	± 0,4	4,4	963-101
ADB 200-4	220	0,1	0,2	± 0,4	4,4	963-101
ADB 600-C3 ♥	600 ct	0,001 ct	0,002 ct	± 0,004 ct	3,8	963-101
ADJ 100-4	120	0,1	0,2	± 0,4	5	963-101
ADJ 200-4	210	0,1	0,2	± 0,4	5	963-101
ADJ 600-C3 ₩	600 ct	0,001 ct	0,002 ct	± 0,004 ct	4,5	963-101

New model

= Carat balances



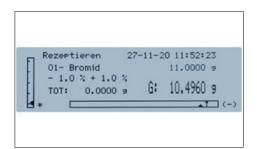




KERN ALJ 200-5DA with optional ionisor ■, see Accessories. High-precison semi-microbalance. Thanks to its precison, this model is suitable to calibrate pipettes.

Tip: To avoid evaporation, we recommend affordable capillary tubes. (cf. standard 8655)

Analytical balance with high weighing capacity, graphic display and convenient recipe function — now also available as single-range semi-microbalance with incredibly high resolution



Convenient recipe-weighing: with the recipe database, in which up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value



Clear printout with date and time. In addition, the components of the mixture are numbered automatically and printed out with the name and weight



 GLP/ISO record keeping professional, detailed GLP Protocol, so that the balance is completely compliant with the relevant standard requirements in accordance with ISO, GLP and GMP





Features

- NEW: KERN ALJ 210-5A! Semi-micro model with only one weighing range and incredibly high resolution. Ideal when weighing heavy loads over the entire weighing range with the finest readability. Particularly advantageous: an ioniser for neutralising electrostatic charge is already fitted as standard
- Rapid and efficient operation thanks to the graphics display. Simple, clear user interface on the display in the following languages: DE, EN, FR, IT, ES, PT
- KERN ALJ-A03: Ionizer to neutralise electrostatic charge for fixed installation in the analytical balance. Particularly convenient handling as you no longer need a separate device. Simply enable the ionizer fan at the push of a button. Suitable for all models, see Accessories on the right. Already fitted as standard in the KERN ALJ 210-5A model Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- Short stabilisation time: steady weight values within approx. 4 s (models with $[d] = 0,1 \text{ mg}, 6 \mid 10 \text{ s (models with)}$ $[d] = 0.01 \mid 0.1 \text{ mg}$) under laboratory conditions
- · Weighing with tolerance range (checkweighing): Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading
- · Dosage aid: high stability mode and other filter settings can be selected

- Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through Display.
- · Ergonomically optimised keypad for left and righthanded users
- · Large glass draught shield with 3 sliding doors for easy access to the items being weighed.
- · Compact size, practical for small spaces
- · Protective working cover included with delivery

Technical data

- · Backlit LCD display, digit height 15 mm
- Dimensions weighing surface, stainless steel. Ø 80 mm
- Overall dimensions (incl. draught shield) W×D×H 210×340×330 mm
- Weighing space W×D×H 160×140×205 mm
- Net weight 7 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN ALJ-A01S05
- Protective dust cover, KERN ABS-A08
- In Draft shield rear panel with integrated ionizer to neutralise electrostatic charge. Is fitted in place of the existing glass rear panel of the draft shield. Suitable for all models in the range, please order at the time you order your balance (not necessary with model ALJ 210-5A, as it is already installed as standard), the scope of delivery is the rear panel, ionizer, Universal plug-in power supply. Factory Option, KERN ALJ-A03
- 2 Set for density determination of liquids and solids with density $\leq \geq 1$, the density is indicated directly on the display, KERN YDB-03
- I Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- · Equipment qualification: compliant qualification concept which includes the following validation services: Installation Qualification (IQ), Operating Qualification (OQ), Further details see 208
- · Further details, plenty of further accessories and suitable printers see Accessories

































Model	Weighing	Readability	Verification	Minimal load	Reproduci-	Linearity		Option			
	capacity		value		bility			Verification		DAkkS Calibr. Certificate	
	[Max]	[d]	[e]	[Min]				MID		DAkkS	
KERN	g	mg	mg	mg	mg	mg		KERN		KERN	
ALS 160-4A	160	0,1	-	-	0,1	± 0,3		-		963-101	
ALS 250-4A	250	0,1	-	-	0,1	± 0,3		-		963-101	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.											
Verification at the factory, we need to know the full address of the location of use.											

verification at the factory, we need to know the fair address of the foodboth of acc.											
ALJ 210-5A	210	0,01	-	-	0,05	± 0,1		-		963-101	
ALJ 200-5DA	82 220	0,01 0,1	-	-	0,04 0,1	± 0,1 0,2		-		963-101	
ALJ 160-4A	160	0,1	-	-	0,1	± 0,3		-		963-101	
ALJ 160-4AM	160	0,1	1	10	0,2	± 0,3		965-201		963-101	
ALJ 250-4A	250	0,1	-	-	0,1	± 0,3		-		963-101	
ALJ 250-4AM	250	0,1	1	10	0,2	± 0,3		965-201		963-101	
ALJ 310-4A	310	0,1	-	-	0,1	± 0,3		-		963-101	
ALI 500-4A	510	0.1	_	_	0.2	± 0.4		_		963-101	





KERN ACS/ACJ with standard data interface RS-232 and USB

The bestseller in analytical balances, with high-quality single-cell weighing system, also with EC type approval [M]

Features

- KERN ABJ-NM, ACJ: Automatic internal adjustment in the case of a change in temperature ≥ 2 °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ABS-N, ACS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight
- Dosage aid

- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Automatic data output to the PC/printer each time the balance is steady
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Protective working cover included with delivery







Technical data

- · Large LCD display, digit height 14 mm
- Dimensions of weighing surface, stainless steel, Ø 91 mm
- · Overall dimensions (incl. draught shield) W×D×H 210×340×325 mm
- Weighing space W×D×H 174×162×227 mm
- · Net weight 6 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN ACS-A02S05
- II Set for density determination of liquids and solids with density $\leq \geq 1$, the density is indicated directly on the display, KERN YDB-03
- In loniser to neutralise electrostatic charge, KERN YBI-01A
- · KERN ABS-N/ABJ-NM: Data interface RS-232, interface cable included, approx. 1,5 m KERN ACS-A01
- 3 Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept which includes the following validation services: Installation Qualification (IQ), Operating Qualification (OQ), Further details see 208
- Further details, plenty of further accessories and suitable printers see Accessories



Single-cell advanced technology:

- · Fully automatic manufactured weighing cell from one piece of material
- · Stable temperature behaviour
- · Short stabilisation time: steady weight values within approx. 3 s under laboratory conditions
- · Shock proof construction
- · High corner load performance

STANDARD























10









ABJ-NM ABS-N ACS/ACJ ACJ ACS	ACS/ACJ					ABS-N/ ABJ-NM	ACJ				
Model	Weighing	Readability	Verification	Minimal load	Reproduci-	Linearity		Option			
	capacity		value		bility			Verifica	tion	DAkkS Calibr. Ce	ertificate
	[Max]	[d]	[e]	[Min]				MO		DAkkS	
KERN	g	mg	mg	mg	mg	mg		KERN		KERN	
ABS 80-4N	82	0,1	-	-	0,2	± 0,3		-		963-101	
ABS 120-4N	120	0,1	-	-	0,2	± 0,3		-		963-101	
ABS 220-4N	220	0,1	-	-	0,2	± 0,3		-		963-101	
ABS 320-4N	320	0,1	-	-	0,2	± 0,3		-		963-101	
ACS 80-4	82	0,1	-	-	0,2	± 0,3		-		963-101	
ACS 100-4	120	0,1	-	-	0,2	± 0,3		-		963-101	
ACS 200-4	220	0,1	-	-	0,2	± 0,3		-		963-101	
ACS 300-4	320	0,1	-	-	0,2	± 0,3		-		963-101	
ABJ 80-4NM	82	0,1	-	-	0,2	± 0,3		-		963-101	
ABJ 120-4NM	120	0,1	-	-	0,2	± 0,3		-		963-101	
ABJ 220-4NM	220	0,1	-	-	0,2	± 0,3		-		963-101	
ABJ 320-4NM	320	0,1	-	-	0,2	± 0,3		-		963-101	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
ACJ 80-4M	82	0,1	1	10	0,2	± 0,3		965-201		963-101	
ACJ 100-4M	120	0,1	1	10	0,2	± 0,3		965-201		963-101	

0,2

 \pm 0,3

± 0,3

ACJ 200-4M

ACJ 300-4M

220

0,1

0,1

963-101

963-101

965-201

965-201











The premium model with single-cell weighing system

Features

- Automatic internal adjustment in the case of a change in temperature ≥ 0,5 °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- Dosage aid: High-stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Printout of a GLP-compliant calibration report conveniently at the touch of a button
- Automatic data output to the PC/printer each time the balance is steady
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed.
- · Protective working cover included with delivery

Technical data

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel,
- Overall dimensions (incl. draught shield)
 W×D×H 217×356×338 mm
- Weighing space W×D×H 168×172×223 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- Protective working cover, scope of delivery:
 5 items, KERN ABT-A02S05
- Set for density determination of liquids and solids with density ≤/≥ 1, the density is indicated directly on the display, KERN YDB-03
- Ioniser to neutralise electrostatic charge, KERN YBI-01A

- Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- Equipment qualification: compliant qualification concept which includes the following validation services: Installation Qualification (IQ), Operating Qualification (OQ), Further details see 208
- Further details, plenty of further accessories and suitable printers see Accessories
- Single-cell advanced technology:
- Fully automatic manufactured weighing cell from one piece of material
- · Stable temperature behaviour
- Short stabilisation time: steady weight values within approx. 4 s (models with [d] = 0,1 mg), approx. 10 s (models with [d] = 0,01 mg) under laboratory conditions
- Shock proof construction
- High corner load performance

STANDARD					ОРТ	ION FACTORY
CALINT RS 232	GLP	RECIPE PERCENT	UNIT UNDER	MULTI SC TECH	10-0	AkkS M

Model	Weighing	Readability	Verification	Minimal	Reproduci-	Linearity		Option			
	capacity		value	load	bility			Verificat	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]				MO		DAkkS	
KERN	g	mg	mg	mg	mg	mg		KERN		KERN	
ABT 100-5NM	101	0,01	1	1	0,05	± 0,15		965-201		963-101	
ABT 120-4NM	120	0,1	1	10	0,1	± 0,2		965-201		963-101	
ABT 220-4NM	220	0,1	1	10	0,1	± 0,2		965-201		963-101	
ABT 320-4NM	320	0,1	1	10	0,1	± 0,3		965-201		963-101	
	Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d]										
ABT 120-5DNM	42 120	0,01 0,1	1	1	0,02 0,1	± 0,05 0,2		965-201		963-101	
ABT 220-5DNM	82 220	0,01 0,1	1	1	0,05 0,1	± 0,1 0,2		965-201		963-101	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.







KERN ABP 100-5DM with optional ionizer

■ NEW: Extremely fast ionization process, thanks to the latest generation of KERN ionization technology to neutralise electrostatic charge for fixed installation in the analytical balance. Particularly convenient handling as you no longer need a separate device. Simply enable the ionizer fan at the push of a button. Suitable for all models

Premium analytical balance with the latest Single-Cell Generation for extremely rapid, stable weighing results – now also available as single-range semi-microbalance with incredibly high resolution



Bright OLED display with large viewing angle for the very best readout from a wide range of lines of sight or poor lighting conditions



USB data interfaces and RS-232 for transferring weighing data to the PC, tablet, printer, USB as well as connecting external devices, such as barcode scanner (option), numeric keypad (option) etc.



GLP/ISO record keeping professional and detailed GLP protocol, so that the scale is fully compliant with the relevant standard requirements according to ISO, GLP and GMP



Features

- · This new generation of analytical balances combines the highest level of precision with large weighing ranges. Thanks to the new Single-Cell Generation, the weighing result is displayed in a fraction of the time with comparable models. Together with the intuitively structured menu, this means that you can work efficiently and rapidly
- Navigation pad for super quick navigating through the menus
- · Automatic internal adjustment in the case of a change in temperature ≥ 1 °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- The Minimum weight of sample can be manually stored in the device or automatically calculated. For weighings below this value, the balance issues a warning message
- · Dosage aid: High-stability mode and other filter settings can be selected
- · Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Individual user settings can be stored for up to 10 users: user name/number (can be printed out or added to the record for each process), password, menu language, user profiles, accessing user settings via barcode, additional guest mode for users who are not logged in, authorizations, eg. B. balance adjustment, changing settings or conditioning or modification of a recipe only by the authorized person & performing the formulation by the user
- · USB data interface, e.g. for connecting a USB keyboard for easy capture of item numbers, item texts, for easier navigation within the menu etc.



- · U.S. FDA 21 Part 11: assists you in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- · Menu languages DE, EN
- Automatic data output to the PC/printer each time the balance is steady
- · Large glass draught shield with 3 sliding doors for easy access to the items being
- II KERN ABP-DM: Multi-function weighing plate included with delivery, minimises the effect of currents of air in the weighing chamber and therefore significantly improves the stabilisation time and repeatability. In addition samples, sample paper, PCR containers, micro centrifuge tubes and many other items which protrude can be easily fixed in place and weighed easily
- Protective working cover included with delivery

Technical data

- Luminescent OLED display, digit height 14 mm, bright with high contrast, for easy reading of the weight, even in poor lightingconditions
- Dimensions weighing surface Ø 91 mm
- Overall dimensions (incl. draught shield) W×D×H, 213×433×344 mm
- Weighing space W×D×H 166×156×220 mm
- · Net weight approx. 8 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN YBA-A06S05
- · Set for density determination of liquids and solids with density $\leq \geq 1$, the density is indicated directly on the display, KERN YDB-03



- In Draft shield rear panel with integrated ioniser to neutralise electrostatic charge. Is fitted in place of the existing glass rear panel of the draft shield. Suitable for all models in the KERN ABP range, please order at the time you order your balance, the scope of delivery is the rear panel, ioniser, power supply. KERN ABP-A01
- · USB barcode scanner, hand-held version, dimensions W×D×H 152×84×63 mm, KERN PET-A09
- 3 Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103
- · Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ), Further details see 208
- · Further details, plenty of further accessories and suitable printers see Accessories

Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- · Stable temperature behaviour
- Short stabilisation time: steady weight values within approx. 2 s (models with [d] = 0.1 mg), approx. 8 s (models with [d] = 0,01 mg, 0,01 | 0,1 mg) under laboratory conditions
- · Shock proof construction
- · High corner load performance

STANDARD































FACTORY

1X Device											
Model	Weighing	Readability	Verification	Minimal load	Reproduci-	Linearity			(Option	
	capacity		value		bility			Verifica	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]				MID		DAkkS	
KERN	g	mg	mg	mg	mg	mg		KERN		KERN	
ABP 100-5M	135	0,01	1	1	0,05	± 0,2		965-201		963-101	
ABP 200-5M	220	0,01	1	1	0,05	± 0,2		965-201		963-101	
ABP 100-4M	120	0,1	1	10	0,1	± 0,2		965-201		963-101	
ABP 200-4M	220	0,1	1	10	0,1	± 0,2		965-201		963-101	
ABP 300-4M	320	0,1	1	10	0,2	± 0,3		965-201		963-101	
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d]											
ABP 100-5DM	52 120	0,01 0,1	1	1	0,02 0,1	± 0,05 0,2		965-201		963-101	
ABP 200-5DM	102 220	0,01 0,1	1	1	0,05 0,1	± 0,1 0,2		965-201		963-101	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Moisture analysers

They have a number of memories, network connectivity, different heating modes and are easy to use due to the intuitive operation and easy-to-read displays. Our high-quality moisture analysers are ideal for use in the food processing industry, water resource management, plastics industry, the energy industry or agriculture.

Halogen moisture analysers for rapid, reliable measuring results

Our models work on the thermogravimetric principle which means the sample is weighed and warmed with a halogen lamp. During this procedure, the weight loss is recorded continuously while it is drying until it reaches the defined value. The current moisture content for the sample can then be automatically calculated from the measured weight difference.

All benefits of our moisture analysers with halogen and infra-red drying:

- · Even heating of the sample without risk of burning
- Rapid amortisation through low purchase costs
- Temperature ranges from 35 to 200 degrees
- High level of measurement accuracy to 0.01 %
- · Spare capacity, weighing range up to 200 g
- You can select between different heating profiles
- You can select between different switch-off criteria, automatic or time-controlled

The drying programs

Depending on the model, our moisture analysers within the laboratory balance category have different heating profiles, so the procedure can be adapted to best suit the sample in question.

- The standard drying setting is suitable for most types of sample. As an option you can choose between these two types of switch-off criteria: Automatic drying (AUTO) or time-controlled (TIME).
- Rapid drying is suitable for samples with a high moisture content.
- Smooth heating through gentle drying prevents disintegration and formation of a skin
- As an alternative to rapid drying, you can also use stage drying as well. The temperature and the time period for the increase in temperature can be freely selected. Equally, the moisture can be determined selectively for different temperatures.

Our recommendation: The high-performance DBS moisture analyser with excellent stability, reliability and reaction speed, 10 drying programs can be stored and memory for 100 drying processes carried out as well as a USB and RS 232 data interface.

Simple data transfer

For easy, convenient communication between the moisture analyser and printer, or PC there are interfaces available, for example to connect a USB or Ethernet. The devices themselves have several internal memories, where you can store drying programs with drying parameters, such as, for example, drying period, drying temperature, display settings, switch-off criteria etc. This saves time and guarantees repeatable results. Compatible printers to print out weights, calibration and interface kits are available in our extensive range of accessories, suitable for each moisture analyser.

For communication between the balance and the printer, the moisture analyser must be disconnected from the power supply and connected to the printer. We guarantee fault-free operation with the KERN interface cable. To transfer the values to the PC we recommend our "Balance Connection KERN SCD 4.0" transfer software. Programs such as Excel or other spreadsheet applications are ideal for displaying graphics.

Our recommendation: DLB moisture analyser with intuitive graphics display, multi-lingual user guidance, convenient Auto-Tare when closing the lid and RS 232 data interface

Our service options

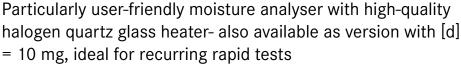
In order for the comparability of the results of moisture analyses to be guaranteed, the correct temperatures must be maintained in the heating chamber or sample. We offer our customers regular calibration of the temperature for genuine and reliable measuring results KERN 964-305 If requested, we can carry out sample analysis for you and support you in adjusting the parameters of your moisture analyser KERN 965-243

Please contact your personal customer advisor if you would like us to help!

Quick-Finder Moisture analysers

Readability [d]	Weighing capacity [Max]	Model	Page	DAYS	CAL EXT	MEMORY	RS 232
g	g	KERN		For a	ın explanation on tl	ne pictos, see fro	ont flap
0,001	60	DBS 60-3	44	1	•	•	•
0,001	110	DAB 100-3	43	1	•	•	•
0,001	160	DLB 160-3A	45	1	•		•
0,01	200	DAB 200-2	43	1	•	•	•





Features

STANDARD

Model KERN

- KERN DAB 200-2: Version with lower resolution, whereby the switch-off criterion is reached faster, which saves time. Ideal for quick tests and spot checks
- Backlit graphic display, digit height 14 mm
 - Drying process active
 - Active heating profile
 - Active switch-off criteria
 - Previous drying time
 - 5 Current temperature
- © Current moisture content in %

- · Halogen quartz glass heater 400 W
- Observation window above the sample, useful during initial setting
- Internal memory for automatic sequence of 15 complete drying processes and 5 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement
- 50 sample plates included

240×365×180 mm

4,82 kg

KERN 963-127

KERN 964-305



Accessories

 Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A

· Application handbook: On the internet,

containing many examples, field reports,

settings and tips for each KERN moisture

you will find a practical application handbook

2

3

5

1200

6

4

3:00T

- Round fiberglass filter high mechanical stability, with organic binder, box of 100 pieces, KERN RH-A02
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01
- Temperature calibration set consists of measuring sensor and display device, KERN DAB-A01.
- Infrared quartz glass heater, temperature range 40 °C-160 °C, Factory Option, KERN DAB-A02
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01
- RS-232/Bluetooth adapter to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., KERN YKI-02
- RS-232/WiFi adapter for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03
- Display of the drying process in conjunction with BalanceConnection, KERN SCD-4.0
- Thermal printer, KERN YKB-01N
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013



Model KERN	DAB 200-2	DAB 100-3					
Readability [d]	0,01 g/0,05 %	0,001 g/0,01 %					
Weighing capacity [Max]	200 g	110 g					
Reproducibility	1,5 %	0,15 %					
weight of sample 2 g*	1,5 %	0,13 %					
Reproducibility,	0,3 %	0,03 %					
weight of sample 10 g*	,	0,00 %					
	an be switched over at any time)						
Moisture [%] = Moisture	0-100 %						
content (M) from wet weight (W)	0-100 %						
Dry content [%] =	100-0 %						
Dry weight (D) from W	100-0 %						
Moisture content (M)	Absolute v	value in [g]					
Temperature range	40 °C-199 °C in	steps up to 1 °C					
	」 Standa	rd drying					
Drying modes	_ Gentle	drying					
	┌ ─ Rapid d	rying					
	· Automatic switch-off (2 mg loss in w	reight in 45 s)					
Switch-off criteria	• Time controlled switch-off (3 min - 9	9 min 59 s, 10 s increments)					
	Manual switch-off at the press of a button						
Recall of measurement/	Interval can be set from 1 s - 10 min						
Log output	(Only when used	with printer or PC)					

Mass:

Temperature:

Net weight

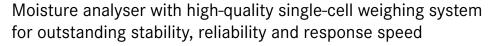
Overall dimensions W×D×H

Option DAkkS Calibr. Certificate

Option Factory Calibr. Certificate

^{*} application-dependent





Features

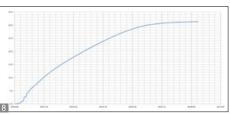
- · Tip: Suitable for samples with low moisture content, e.g. plastics
- · Backlit graphic display, digit height 15 mm
- Drying process active
- Previous drying time
- Current temperature
- Unit for displaying the results
- Current moisture content in %
- Active heating profile

- · Halogen quartz glass heater 400 W
- · Excellent temperature control thanks to halogen technology, suitable for temperature-sensitive samples
- Internal memory for automatic sequence of 10 complete drying processes and 100 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement









- · Password protection to prevent manipulation of stored settings, data, etc.
- · Sample description for up to 99 samples, 2 digits, freely programmable, and is printed in the measuring protocol
- · Date and time display as standard
- USB data interface for transferring weighing data to the PC, printer etc. *Can only be used in combination with KERN DBS-A02
- 10 sample plates included
- · Protective working cover included with delivery
- Application handbook: On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

STANDARD



























M. J. II KEDN	DBS 60-3					
Modell KERN	DB2 00-3					
Readability [d]	0,001 g/0,01 %					
Weighing capacity [Max]	60 g					
Reproducibility	0,15 %					
weight of sample 2 g*	0,15 %					
Reproducibility,	0,02 %					
weight of sample 10 g*	0,02 %					
Display after drying						
Moisture [%] = Moisture	0-100 %					
content (M) from wet weight (W)	0-100 %					
Dry content [%] =	100-0 %					
Dry weight (D) from W	100-0 %					
ATRO [%] [(W-D) : D] · 100%	0-999 %					
Moisture content (M)	Absolute value in [g]					
Temperature range	50 °C-200 °C in steps up to 1 °C					
Drying modes	Drying in levels					
Drying modes						
	┌─ Rapid drying					
	• Automatic unrestricted switch-off (Selectable loss in weight 0,01% – 0,1% in 30 s)					
Switch-off criteria	 Time controlled switch-off (1 min – 12 h) 					
	Manual switch-off at the press of a button					
Recall of measurement/	Interval can be set from 1 s - 10 min					
Log output	(Only when used with printer or PC)					
Overall dimensions W×D×H	204×336×167 mm					
Net weight	approx. 4,6 kg					
Option DAkkS Calibr. Certificate	Mass: KERN 963-127					
Option Factory Calibr. Certificate	Temperature: KERN 964-305					

* application-dependent

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN DBS-A03S05
- Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A
- · Round fiberglass filter high mechanical stability, with organic binder, box of 100 pieces, KERN RH-A02
- Temperature calibration set consists of measuring sensor and display device, KERN DBS-A01.
- B Display of the drying process in conjunction with BalanceConnection, KERN SCD-4.0
- · USB cable, KERN DBS-A04
- · Software BalanceConnection, flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs. For details see page 167, scope of supplies: Download link for 1 license, KERN SCD-4.0-DL
- Thermal printer, KERN YKB-01N
- · Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013
- Label printer, KERN YKE-01



Moisture analyser with intuitive graphic display and step-by-step user guidance in 6 languages

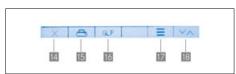
Features

- · Rapid and efficient operation thanks to the graphics display
- · Backlit graphics display, digit height 11 mm
- · Home screen:
- 1 Main menu
- Start drying process
- 3 Select drying temperature
- 4 Select shut-off criteria
- Setting to zero/taring
- 6 Stand-by

- · During measurement:
- Current temperature
- **B** Current heating profile
- Active shut-off criteria
- Abort drying process
- Stop drying process
- 12 Display current drying parameters
- 13 Toggle the unit for displaying the results
- At the end of the measurement:
- 14 Exit drying program:
- 15 Print measurement report
- 16 (De)activate, edit GLP parameters
- Display detailed result
- 18 Toggle the unit for displaying the results

0.000%







- · 400 W halogen-quartz glass heater
- · User guidance in 6 languages (DE, EN, FR, IT, ES, PT)
- · Automatic taring when starting a measurement by closing the lid
- The last value measured remains on the display until it is replaced by a new measurement
- 19 Internal GLP; printout of balance ID, project ID, user ID, values determined by the drying process etc.
- 10 sample plates included
- · Protective working cover included with
- · Application handbook: On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

STANDARD

















Modell KERN	DLB 160-3A							
Readability [d]	0,001 g/0,01 %							
Weighing capacity [Max]	160 g							
Reproducibility	0,15 %							
weight of sample 2 g*	0,10 %							
Reproducibility,	0.05 %							
weight of sample 10 g*	***							
	an be switched over at any time)							
Moisture [%] = Moisture	0-100 %							
content (M) from wet weight (W)	0-100 //							
Dry content [%] =	100-0 %							
Dry weight (D) from W	100-0 %							
ATRO [%] [(W-D) : D] · 100%	0–999 %							
Moisture content (M)	Absolute value in [g]							
Temperature range	35 °C-160 °C in steps up to 1 °C							
Drying modes								
Drying modes	┌─ Rapid drying, preheating can be switched on							
	• Automatic unrestricted switch-off (Selectable loss in weight 1 mg/30 s-10 mg/30 s)							
Switch-off criteria	• Time controlled switch-off (1 min – 99 min)							
	Manual switch-off at the press of a button							
Log output	• Interval adjustable (5 s - 250 s)							
Overall dimensions W×D×H	215×345×235 mm							
Net weight	approx. 4,7 kg							
Option DAkkS Calibr. Certificate	Mass: KERN 963-127							
Option Factory Calibr. Certificate	Temperature: KERN 964-305							

^{*} application-dependent

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN ALJ-A01S05
- Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A
- · Round fiberglass filter high mechanical stability, with organic binder, box of 100 pieces, KERN RH-A02
- Round fiberglass filter medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01
- Temperature calibration set consists of measuring sensor and display device, KERN DLB-A01N.
- Thermal printer, KERN YKB-01N
- · Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013

KERN FKB Page 52

- Simple and convenient5-key operation
- > Very fast display
- > High mobility



Bench scales

Compact industrial weighing technology

Thanks to their compact dimensions, low weight, robust internal mechanism and the fact that they can be operated independent of mains power, bench scales can be used not only in a stationary situation, but also as mobile scales.

With weighing ranges between 3 kg and 65 kg, bench scales can cover a wide range of applications. Whether as a commissioning scale in the warehouse, for inventory purposes, on a production work station, in quality control, in small workshops, in service cars or in sales offices, bench scales are the first choice.

Durable stainless steel weighing plates, easy to read backlit displays, useful functions such as piece counting, PRE-TARE – subtraction of a known container weight, or ▶ *interfaces* to PC and printer, all these support the users in their daily work.

► *Dual range* scales cover a particularly wide range of applications. With these scales, the total weighing range is divided into 2 subranges and begins with a high resolution read-out in the fine weighing range. If this range is exceeded the balance automatically switches to the higher weighing range with the lower resolution read-out.

All KERN bench scales have an adjustment program (CAL) to adjust the accuracy. In this way, the high level of accuracy is guaranteed at all times, even during harsh everyday use. Find the right test weights for you, on page 176.

▶ See the glossary on page 215-217

Quick-Finder Bench scales

Readability	Weighing capacity	Weighing plate W×D	Model	Page	DAYS	M	CAL EXT	RS 232	PCS	-√+ ③ Ͽ»	MOVE MOVE	BATT	ACCU
[d] g	[Max] kg	mm	KERN			For	an expl	anation	on the p	ictos, se	ee front f	flap	
0,02	6	340×240	FKB 6K0.02	52	1		<u> </u>	•	•			<u> </u>	
0,05	6	294×225	GAB 6K0.05N	51	1		•	•	•	•			
0,05	8	340×240	FKB 8K0.05	52	1		•	•	•		•	•	
0,05	16	340×240	FKB 16K0.05	52	1		•	•	•		•	•	
0,1	3	253×227	FCB 3K0.1	50	1		•	•	•		•	•	
0,1	8	253×227	FCB 8K0.1	50	1		•	•	•		•	•	
0,1	12	294×225	GAB 12K0.1N	51	1		•	•	•	•			
0,1	16	340×240	FKB 16K0.1	52	1		•	•	•		•	•	0
0,1	36	340×240	FKB 36K0.1	52	1		•	•	•		•	•	0
0,2	30	294×225	GAB 30K0.2N	51	1		•	•	•	•			0
0,2	36	340×240	FKB 36K0.2	52	1		•	•	•		•	•	0
0,2	65	340×240	FKB 65K0.2	52	1		•	•	•		•	•	0
0,5	6	253×227	FCB 6K0.5	50	1		•	•	•		•	•	0
1	3	252×228	FCE 3K1N	49	1		•					•	0
1	12	253×227	FCB 12K1	50	1		•	•	•	-	•	•	0
1	30	340×240	FKB 30K1	52	1		•	•	•		•	•	0
1	30	253×227	FCB 30K1	50	1		•	•	•		•	•	0
1	65	340×240	FKB 65K1	52	1		•	•	•		•	•	0
1 2	3 6	295×225	GAB 6K1DNM	51	1	0	•	•	•	•			0
2	6	252×228	FCE 6K2N	49	1		•					•	0
2	24	253×227	FCB 24K2	50	1		•	•	•		•	•	0
2 5	6 15	300×230	GAB 15K2DNM	51	1	0	•	•	•	•			0
5	10	320×260	ECE 10K-3N	48	1		•					•	0
5	10	320×260	ECB 10K-3N	48	1		•					•	0
5	15	252×228	FCE 15K5N	49	1		•					•	0
5 10	15 30	294×225	GAB 30K5DNM	51	1	0	•		•	•			0
10	20	320×260	ECE 20K-2N	48	1		•					•	0
10	20	320×260	ECB 20K-2N	48	1		•					•	0
10	30	252×228	FCE 30K10N	49	1		•					•	0
20	50	320×260	ECE 50K-2N	48	1		•					•	0
20	50	320×260	ECB 50K-2N	48	1		•					•	0

 \bullet = standard o = option







Plain, mobile, uncomplicated

Features

- 2 High mobility: Battery operation, compact, lightweight construction, recessed grips on the underside and low weight make this balance ideal for use in several locations
- · Particularly large weighing plate
- Very fast display: steady weight values within 2 s
- · Simple and convenient 2-key operation

Technical data

- · KERN ECB-N: Large backlit LCD display, digit height 21 mm
- KERN ECE-N: Large LCD display, digit height 21 mm
- · Dimensions weighing surface W×D 320×260 mm
- · Weighing plate material KERN ECE-N: plastic KERN ECB-N: stainless steel, see larger picture
- Overall dimensions W×D×H 320×300×60 mm
- Optional battery operation, 6×1.5 V AA, standard, operating time up to 100 h, AUTO-OFF function to preserve the battery
- Net weight KERN ECE-N: approx. 1,6 kg KERN ECB-N: approx. 2,6 kg
- · Permissible ambient temperature 5 °C/35 °C

Accessories

- Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN PCB-A01
- · Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01
- Tare pan made from stainless steel. Ideal for weighing loose small parts as well as fruit, vegetables, etc., KERN RFS-A02
- · External universal mains adapter, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-03
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD











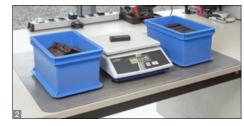


Model	Weighing capacity	Readability	Reproducibility	Linearity	Option
					DAkkS Calibr. Certificate
	[Max]	[d]			DAkkS
KERN	kg	g	g	g	KERN
ECE 10K-3N	10	5	5	± 20	963-128
ECE 20K-2N	20	10	10	± 40	963-128
ECE 50K-2N	50	20	20	± 80	963-128
ECB 10K-3N	10	5	5	± 20	963-128
ECB 20K-2N	20	10	10	± 40	963-128
ECB 50K-2N	50	20	20	± 80	963-128









Entry-level bench scale - mobile, practical, lightweight

Features

- Simple and convenient 2-key operation
- Very fast display: steady weight values within 3 s
- 11 Ideal as a compact letter and parcel scale, especially where space is limited
- 2 Ideal as a grading, comissioning or simple checkweighing scale in production or dispatch
- · Protective working cover included with delivery

Technical data

- · Large LCD display, digit height 25 mm
- Dimensions weighing surface, plastic, W×D 252×228 mm
- Overall dimensions W×D×H 270×323×110 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- · Net weight approx. 2,4 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery: 5 pieces, KERN FCB-A02S05
- B Stainless steel weighing plate, robust, removable, for easy cleaning, KERN FCE-A01
- · Internal rechargable battery pack, operating time up to 20 h, without backlight, charging time approx. 10 h, KERN FCB-A01

STANDARD















Model	Weighing capacity	Readability	Reproducibility	Linearity	Option
					DAkkS Calibr. Certificate
	[Max]	[d]			DAkkS
KERN	kg	g	g	g	KERN
FCE 3K1N	3	1	2	± 3	963-127
FCE 6K2N	6	2	2	± 4	963-128
FCE 15K5N	15	5	10	± 15	963-128
FCE 30K10N	30	10	10	± 30	963-128



Bench scale with second display on the backside of the scale

Features

- · PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- High mobility: thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- · Data interface RS-232 standard
- · Protective working cover included with delivery

Technical data

- · Backlit LCD display, digit height 25 mm
- Dimensions of weighing surface, stainless steel, W×D 253×227 mm
- Overall dimensions W×D×H 270×323×110 mm
- · Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h
- Net weight approx. 2,6 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery: 5 pieces, KERN FCB-A02S05
- · Internal rechargable battery pack, operating time up to 10 h, without backlight, charging time approx. 10 h,, KERN FCB-A01
- · Further details, plenty of further accessories and suitable printers see Accessories



























	DAkkS
ACCU	+3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Smallest part	Option	
	r	r.,			weight	DAkkS Calibr. Ce	rtificate
KERN	[Max]	[d]	g.		[Normal] g/piece	DAkkS	
KEKIN	kg	g	g	ğ	g/ piece	KERN	
FCB 3K0.1	3	0,1	0,1	± 0,3	2	963-127	
FCB 8K0.1	8	0,1	0,1	± 0,3	2	963-128	
FCB 6K0.5	6	0,5	0,5	± 1,5	10	963-128	
FCB 12K1	12	1	1	± 3	20	963-128	
FCB 30K1	30	1	1	± 3	20	963-128	
FCB 24K2	24	2	2	± 6	40	963-128	





Checkweighing and portioning scale, also with EC type approval [M]

Features

- · Compact size, practical for small spaces
- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- · Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- Totalising of weights
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 24 mm
- Dimensions weighing surface W×D 295×225 mm
- Overall dimensions W×D×H, 320×345×125 mm
- Net weight approx. 3,0 kg
- · Permissible ambient temperature GAB-N: 0 °C/40 °C GAB-DNM: -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05
- · Internal rechargeable battery pack, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04
- II Signal lamp for visual support of weighing with tolerance range, only in combination with, KERN CFS-A03

- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04
- Tare pan made from stainless steel. Ideal for weighing loose small parts as well as fruit, vegetables, etc., KERN RFS-A02
- · Further details, plenty of further accessories and suitable printers see Accessories

Application examples

- · Small industrial scale for pharmacies
- · Hand mixtures of tea, coffee, chocolates
- · Portioning of dough, meat, fish, poultry, mixed salads in cafeterias etc.
- · Mobile weighing of freshly picked fruit on site
- Checkweigher in supermarkets
- · High-precision industrial applications, piece counting or stock-taking

Note: Official verification is mandatory for commerical trade.

STANDARD





































FACTORY

Model	Weighing	Readability	Verification	Minimal load	Smallest part		(Option	
	capacity		value		weight	Verificat	ion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]	[Normal]	MIII		DAkkS	
KERN	kg	g	g	g	g/piece	KERN		KERN	
GAB 6K0.05N	6	0,05	-	-	0,5	-		963-128	
GAB 12K0.1N	12	0,1	-	-	1	-		963-128	
GAB 30K0.2N	30	0.2	_	_	2	_		963-128	

Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d]

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

	Verification at the factory, we need to know the full address of the location of use.								
GAB 6K1DNM	3 6	1 2	1 2	20	2	965-228		963-128	
GAB 15K2DNM	6 15	2 5	2 5	40	5	965-228		963-128	
GAB 30K5DNM	15 30	5 10	5 10	100	10	965-228		963-128	









High-resolution bench scale with large weighing range and robust stainless steel weighing plate

Features

06

- Thanks to the high resolution of up to 360.000 points it is ideal for high-precision weighing in the industrial field
- · Housing with robust aluminium diecast housing trough, maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- II Particularly practical: thanks to the large weighing ranges and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, for example, gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver
- · PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels

- · Freely programmable weighing unit, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else
- Model with resolution > 240,000 Pt.: Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- Protective working cover included with delivery

Technical data

- · Backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, Ethernet interface to connect to an W×D 340×240 mm
- · Dimensions housing W×D×H, 350×390×120 mm
- Optional battery operation, 6×1.5 V Size C not included in scope of delivery, operating time
- Permissible ambient temperature 10 °C/40 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN FKB-A02S05
- · Rechargeable battery pack external, operating time up to 48 h without backlight, charging time approx. 8 h, KERN PCB-A01
- · USB data interface, for transferring weighing to the PC, printer etc., must be ordered at purchase, KERN CKE-A02
- · WiFi data interface for wireless data transmission from balance to printer, PC or other peripheral devices, must be ordered at purchase, KERN YMI-A01
- IP-based Ethernet network, must be ordered at purchase, KERN FKB-A01
- Tare pan made from stainless steel. Ideal for weighing loose small parts as well as fruit, vegetables, etc., KERN RFS-A02
- Further details, plenty of further accessories and suitable printers see Accessories

STANDARD















































Model	Weighing ca-	Readability	Reproducibility	Linearity	Smallest part	Net weight	Option
	pacity				weight		DAkkS Calibr. Certificate
	[Max]	[d]			[Normal]	approx.	DAkkS
KERN	kg	g	g	g	g/piece	kg	KERN
FKB 6K0.02	6	0,02	0,04	± 0,1	0,2	7	963-128
FKB 8K0.05	8	0,05	0,05	± 0,15	0,5	7	963-128
FKB 8K0.1	8	0,1	0,1	± 0,3	2	6	963-128
FKB 15K0.5	15	0,5	0,5	± 1,5	10	6	963-128
FKB 16K0.05	16	0,05	0,1	± 0,25	0,5	7	963-128
FKB 16K0.1	16	0,1	0,1	± 0,3	1	7	963-128
FKB 30K1	30	1	1	± 3	20	6	963-128
FKB 36K0.1	36	0,1	0,2	± 0,5	1	7	963-128
FKB 36K0.2	36	0,2	0,2	± 0,6	2	7	963-128
FKB 65K0.2	65	0,2	0,4	± 1	2	7	963-129
FKB 65K1	65	1	1	± 3	20	6	963-129





KERN FGE 10K-3S05 Page 55

- > Weighing plate made of safety glass
- > For easy and hygienic cleaning
- > Low overall height for secure footing and space-saving storage

Food (kitchen/stainless steel/IP65...68 protection)

KERN scales - not scared of water at all!

Scales used in industrial situations or the food industry are often exposed to extreme stresses and strains. Water, oils, fats, varnish, dust, dirt, flour, small parts etc. are all natural enemies of a scale. In industries such as the chemical, pharmaceutical, food, manufacturing industries, etc. scales must be able to cope with these stresses without this affecting their performance.

For use in such harsh environmental conditions, levels of protection are defined, which specify which environmental stresses a system can be exposed to with respect to the level of contact, foreign object and moisture protection, without damage being caused to the unit. These levels of protection are described in the following standard: "DIN EN 60529: protection types through housing" The IP code usually consists of a two-digit combination, which gives the relevant level of protection, e.g. IP68.

The first digit specifies the protection level for contact protection and protection against foreign bodies (dust protection), the second digit is for the water and moisture protection (protection against splashes of water).

All stainless steel components of the IP65...68 protected KERN stainless steel scales are made of corrosion-resistant steel of quality class 1.4301 (DIN X5CrNi18-10). The material properties support you in your► HACCP-compliant quality system.

▶ See the glossary on page 215-217

Extract from the standard: "DIN EN 60529: protection types through housing":

KERN-Pictogram	1. digit	Specification	2. digit	Specification
♦ ♦ ♦ IP 65	6	Dustproof	5	Protection against jets of water (nozzle) from any angle (cleaning with a damp cloth)
♦ ♦ ♦ • • • • • • • • • •	6	Dustproof	6	Protection against powerful jets of water
66	6	Dustproof	7	Protection against temporary immersion
♦♦♦	6	Dustproof	8	Protection against continuous immersion (designed for continuous use in wet areas, submersion is possible depending on the pressure (water depth))

Quick-Finder Food (kitchen/stainless steel/IP65...68 protection)

Readability	Weighing capacity [Max]	Model	Page	DAYS	M	CAL EXT	RS 232	— √ + ③ ③» TOL	1P 65	66	68	ACC
a) :	liviaxj kg	KERN				For an e	explanation	on the pi	ctos, see f	ront flap		
0,1	0,5	FOB 500-1S	58	1		•						
0,1	0,5	FOB 0.5K-4NS	58	1	-	•			•			
0,1	3	FCF 3K-4	56	1		•						0
0,2	1,5 1,5	WTB 1K-4N FFN 1K-4N	60	1 1		•		•	•			0
0,2 0,2	3	FOB 3K-4NL	59	1		•				•		
0,5	1,5	FOB 1K-4LM	57	1	0	•		•		•		
0,5	1,5	FOB 1.5K0.5	59	1		•		•				0
0,5	1,5	WTB 1K-4NM	60	1	0	•		•	•			0
0,5 0,5	1,5	FFN 1K-4NM WTB 3K-4N	61	<u>1</u> 1	0	•		•	•			0
0,5	3	FFN 3K0.5IPN	61	1		•			•			
0,5	3	FXN 3K-4N	62	1	-	•		•			•	
0,5 1	5 7,5	FOB 7K-4NL	59	1		•				•		
0,5	6	SXS 6K-3	64	1		•	0	•			•	O
<u>1</u> 1	3	FOB 3K-3LM FOB 3K1	57 59	1 1	0	•		•		•		0
1	3	WTB 3K-3NM	60	1	0	•		•	•			
1	3	FFN 3K1IPM	61	1	0	•			•			•
1	3	FXN 3K-3M	62	1	0	•		•			•	
1	5	FGE 5K-3S05	55	1		•						
1	5	FOR 5K1S	58	1		•						
<u>1</u> 1	<u>5</u>	FOB 5K-3NS WTB 6K-3N	58 60	1 1		•		•	•			C
1	6	FFN 6K1IPN	61	1		•			•			
1	6	FXN 6K-3N	62	1		•		•			•	
1	10	SFB 10K1HIP	63	1		•	0	•	•	•		•
<u>1</u> 1	15	FGE 10K-3S05	55	1		•						
<u> </u> 	15 15	SXS 10K-3 SXS 10K-3L	64	1		•	0	•			•	<u> </u>
1	30	FCF 30K-3	56	1		•						
2	3 6	SXS 6K-3M	64	1	0	•	0	•			•	C
2	8 15	FOB 10K-3NL	59	1		•				•		
2	6	FOB 6K-3LM	57	1	0	•		•		•		
<u>2</u>	6	FOB 6K2 WTB 6K-3NM	59 60	1	0	•		•	•			
2	6	FFN 6K2IPM	61	1	-	•			•			
<u>-</u> 2	6	FXN 6K-3M	62	1	0	•		•			•	
2	15	WTB 10K-3N	60	1		•		•	•			C
2	15	FFN 15K2IPN	61	1	-	•			•			•
2	15	FXN 10K-3N	62	1		•	0	•			•	
<u>2</u> 2	30	SFB 20K2HIP SXS 30K-2	63	1		•	0	•	•	•		
2	30	SXS 30K-2L	64	1		•	0	•		<u>, </u>	•	
5	6 15	SXS 10K-3M	64	1	0	•	0	•			•	C
5	6 15	SXS 10K-3LM	64	1	0	•	0	•			•	(
5	16 30	FOB 30K-3NL	59	1		•				•		
; ;	15 15	FOB 10K-3LM WTB 10K-3NM	57 60	<u>1</u> 1	0	•		•	•	•		
5	15	FFN 15K5IPM	61	1	-	•			•			
5	15	FXN 10K-3M	62	1	0	•		•			•	
i	15	SFB 15K5HIPM	63	1	0	•	0	•	•	•		(
5	25	FFN 25K5IPN	61	1		•						
5	30 30	WTB 30K-3N FXN 30K-3N	60	<u>1</u> 1	-	•		•	•		•	
5	50	SFB 50K-3XL	63	<u> </u> 1		•	0	•	•	•		•
5	50	SFB 50K5HIP	63	1		•	0	•	•	•		
5	50	SFB 50K5LHIP	63	1		•	0	•	•	•		(
-	60	SXS 60K-2	64	1		•	0	•			•	
i 10	15 30	SXS 60K-2L SXS 30K-2M	64	<u>1</u> 1	0	•	0	•			•	(
10	15 30	SXS 30K-2M SXS 30K-2LM	64	<u>-</u> 1	0	•		•			•	
)	25	FFN 25K10IPM	61	1	0	•			•			
)	30	WTB 30K-2NM	60	1	0	•		•	•			(
)	30	FXN 30K-2M	62	1	0	•		•			•	
))	30	SFB 30K10HIPM	63	1	0	•	0	•	•	•		
)	100	SFB 100K10HIP SFB 100K-2XL	63	<u>1</u> 1		•	0	•	•	•		-
))	150	SXS 100K-2XL	64	1		•	0	•			•	(
)	150	SXS 100K-2L	64	2**		•	0	•			•	C
0 20	30 60	SXS 60K-2M	64	1	0	•	0	•			•	
0 20	30 60	SXS 60K-2LM	64	1	0	•	0	•			•	
<u>) </u>	60	SFB 60K-2XLM SFB 60K20LHIPM	63	<u>1</u> 1	0	•	0	•	•	•		
0	300	SXS 300K-2	64	2**		•	0	•				
0 50	60 150	SXS 100K-2M	64	1	0	•	0	•			•	
0 50	60 150	SXS 100K-2LM	64	2**	0	•	0	•			•	(
0	150	SFB 100K-2HM	63	1	0	•	0	•	•	•		•
0 0	150	SFB 100K-2LM	63	1	0	•	0	•	•	•		
	150	SFB 100K-2XLM	63	1	0		0	•	•	•		•

News 2021

● = standard O = option

 $^{^{\}star\star}$ Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs















■ FGE 5K-3S05

FGE 10K-3S05

The price breaker!

Most economical kitchen scale in the KERN assortment

Precise design kitchen scale for kitchen, cafeteria, gastronomy

Features

- FGE 10K-3S05: Weighing plate made out of safety glass
- · hygienic and easy to clean
- Low overall height for secure footing and space-saving storage
- Secure and non-slip positioning through rubber feet
- Very easy to use FGE 5K-3S05: 2 Buttons FGE 10K-3S05: 1 Button
- Comfortable taring with just one keystroke.
 For example, you can tare a bowl before starting a formulation. In addition, you can tare each time you weigh in a formulation ingredient, so that you can weigh in the next formulation ingredient with the weight indicated in the formula without having to do any calculations
- Integrated AUTO-OFF function to preserve the batteries
- Large high-contrast display that is easy to read

Technical data

■ FGE 5K-3S05

- Large backlit LCD display, digit height 18 mm
- Overall dimensions W×D×H 152×230×15 mm
- Dimensions of glass weighing plate W×D 152×230 mm
- Ready for use: Batteries included, 2×CR2032

FGE 10K-3S05

- · Large backlit LED display, digit height 22 mm
- Overall dimensions W×D×H 272×250×22 mm
- Dimensions of glass weighing plate W×D 272×205 mm
- Ready for use: Batteries included, 3×1,5 V AAA
- Note: The models are delivered in a set of 5 units. i.e. the price given in the table refers to 5 items. Cannot be delivered individually. The calibration price refers to one single balance

STANDARD













Model	Weighing capacity	Readability	Option DAkkS Calibr. Certificate
KERN	[Max] kg	[d] g	DAKKS CAIDI. GET UNCATE DAKKS KERN
FGE 5K-3S05	5	1	963-127
FGE 10K-3S05	15	1	963-128







Compact bench scale with multi-purpose functionality and a high level of accuracy for use in industry, gastronomy and kitchen

Features

- Simple and convenient 5-key operation
- · Very fast display: steady weight values within 3 s
- · Ideal as a
- compact letter and parcel scale, especially in constricted spaces
- grading or commissioning balance or simple checkweigher in production or dispatch
- Checkweigher in the catering trade, cafeterias, school kitchens
- High mobility: thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- · Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 253×228 mm
- Overall dimensions W×D×H 270×345×106 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Net weight approx. 2,8 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN FCF-A01S05
- · Internal rechargeable battery pack, operating time up to 120 h without backlight, charging time approx. 16 h, KERN GAB-A04

























OPTION	
	_

þ	DAkkS
J	+3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Smallest part		Option	
					weight		DAkkS Calibr. Ce	rtificate
	[Max]	[d]			[Normal]		DAkkS	
KERN	kg	g	g	g	g/piece		KERN	
FCF 3K-4	3	0,1	0,1	± 0,3	2		963-127	
FCF 30K-3	30	1	1	± 3	20		963-128	











Compact stainless steel bench scale with EC type approval [M] and special checkweighing display for even more efficient working

Features

- Innovative weighing with tolerance range (Checkweighing): The colour of the display changes depending on the weight (too light/ ok/too heavy) and is an aid to help with portioning, dosing and grading
- Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple to clean
- 2 Suitable for the ever-increasing hygienic requirements in the food industry
- High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- Your support in a HACCP-compliant quality system
- Protection against dust and water splashes IP67 (only when using battery)

- Secure and non-slip positioning through rubber feet
- Increased protection against humidity through waterproof silicone sealing of the load cell, electronics and soldering joints
- · Mains adapter included with the delivery
- · Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 25 mm
- Overall dimensions W×D×H 256×285×100 mm
- KERN FOB-LM: Optional battery operation, 4×1.5 V AA, standard, operating time up to 48 h, AUTO-OFF function to preserve the battery
- Net weight 3,8 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN FOB-A13S05
- Mains adapter external, not included, can be reordered, KERN FOB-A01
- In Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruit, vegetables, etc., KERN RFS-A02

Note: Official verification is mandatory for commercial trade.

STANDARD

















Model	Weighing	Readability	Verification	Minimal load	Weighing plate		(Option	
	capacity		value			Verifica	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]		MIII		DAkkS	
KERN	kg	g	g	g	mm	KERN		KERN	
FOB 1K-4LM	1,5	0,5	0,5	10	248×198	965-227		963-127	
FOB 3K-3LM	3	1	1	20	248×198	965-227		963-127	
FOB 6K-3LM	6	2	2	40	248×198	965-228		963-128	
FOB 10K-3LM	15	5	5	100	248×198	965-228		963-128	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.





Super compact stainless steel balance for weighing, checking and portioning in the smallest of spaces

	KERN FOB-S	KERN FOB-NS					
Features	Stainless steel design of the housing and weighing plate. Its standard mobility: thanks to battery operation, compact, lightweig (kitchen, sales office, cafeteria, Food industry-Laboratory etc.) Secure and non-slip positioning through rubber feet Your support in a HACCP-compliant quality system Particularly flat design Protective working cover included with delivery	ht construction, it is suitable for the use in several locations					
		Protection against dust and water splashes IP65 (only when using battery)					
	Large LCD display, digit height 20 mm Permissible ambient temperature 10 °C/40 °C						
Technical data	 Dimensions weighing surface, stainless steel, W×D 125×155 mm Overall dimensions W×D×H 175×155×40 mm Ready for use: Batteries included, 9 V block, operating time up to 20 h Net weight approx. 0,70 kg Dimensions weighing surface, stainless steel, W×D 150×120 mm Overall dimensions W×D×H 170×150×40 mm Ready for use: Batteries included, 9 V block, operating time up to 24 h Net weight 0,80 kg 						
Accessories	Protective working cover, scope of delivery: 5 items, KERN FOB-A11S05	Protective working cover, scope of delivery: 5 items, KERN FOB-A12S05					
	External mains adapter, KERN FOB-A09						



07













Model	Weighing capacity	Readability	Weighing plate	Options
			W×D	DAkkS Calibr. Certificate
	[Max]	[d]		DAkkS
KERN	kg	g	mm	KERN
FOB 500-1S	0,5	0,1	155×125	963-127
FOB 5K1S	5	1	155×125	963-127
FOB 0.5K-4NS	0,5	0,1	150×120	963-127
FOB 5K-3NS	5	1	150×120	963-127





Compact stainless steel bench (FOB) scale with special checkweighing display for even more efficient working

	KERN FOB	KERN FOB-NL						
	 Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple to clean High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.) Your support in a HACCP-compliant quality system Protective working cover included with delivery 							
Features	 Innovative weighing with tolerance range (Checkweighing): The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading Secure and non-slip positioning through rubber feet Increased protection against humidity through waterproof silicone sealing of the load cell, electronics and soldering joints 	Ideal for the increased hygienic requirements in the food industries Protection against dust and water spashes IP67 (only when using battery)						
Technical data	 Large backlit LCD display, digit height 20 mm Overall dimensions W×D×H 240×180×60 mm Net weight approx. 2,0 kg 	 Large backlit LCD display, digit height 25 mm Overall dimensions W×D×H 285×255×90 mm Ready for use: Batteries included, 4×1.5 V AA, operating time up to 48 h Net weight approx. 3,8 kg 						
	Permissible ambient temperature 5 °C/35 °C							
Accessories	 Protective working cover, scope of delivery: 5 items, KERN FOB-A05S05 Internal rechargable battery pack, operating time up to 24 h without backlight, charging time approx. 8 h, KERN FOB-A07 	 Protective working cover, scope of delivery: 5 items, KERN FOB-A13S05 Mains adapter external, not included, KERN FOB-A01 						
	Tare pan made from stainless steel, Ideal for weighing loose sm	nall parts as well as fruit, vegetables, etc., KERN RFS-A02						



















Model	Weighing capacity	Readability	Weighing plate	Option
				DAkkS Calibr. Certificate
	[Max]	[d]		DAkkS
KERN	kg	g	mm	KERN
FOB 1.5K0.5	1,5	0,5	175×165	963-127
FOB 3K1	3	1	175×165	963-127
FOB 6K2	6	2	175×165	963-128
FOB 3K-4NL	3	0,2	252×200	963-127
	Dual-range balance switch	nes automatically to the next larges	st weighing capacity [Max] and readi	bility [d]
FOB 7K-4NL	5 7,5	0,5 1	252×200	963-128
FOB 10K-3NL	8 15	1 2	252×200	963-128
FOB 30K-3NL	16 30	2 5	252×200	963-128









Ideal for food industry, thanks to its IP65 protection and special checkweighing display, now also with EC type approval [M]

Features

- Suitable for the ever-increasing hygienic requirements in the food industry
- Your support in a HACCP-compliant quality system
- II Protection against dust and water splashes IP65 (only when using rechargeable battery
- · Very fast display: steady weight values within 2 s
- 2 Second display on the rear of the balance
- · Compact size, practical for small spaces
- Innovative weighing with tolerance range (Checkweighing): The colour of the display changes depending on the weight (too light/ ok/too heavy) and is an aid to help with portioning, dosing and grading

- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- · Recessed grips on the underside of the scale for easy transportation
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 25 mm
- · Weighing plate dimensions, stainless steel, W×D 260×200 mm
- Overall dimensions W×D×H 285×315×128 mm
- · Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN RFB-A01S05
- · Internal rechargeable battery pack, operating time up to 50 h without backlight, charging time approx. 12 h, KERN WTB-A01N
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruit, vegetables, etc 370×240×20 mm, KERN RFS-A02

STANDARD

















Model	Weighing capacity	Readability	Verification value	Minimal load	Option		
					Verification	on DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]	MIII	DAkkS	
KERN	kg	g	g	g	KERN	KERN	
WTB 1K-4N	1,5	0,2	-	-	-	963-127	
WTB 3K-4N	3	0,5	-	-	-	963-127	
WTB 6K-3N	6	1	-	-	-	963-128	
WTB 10K-3N	15	2	-	-	-	963-128	
WITD 201/ 2NI	20	E				062 120	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

	verification at the factory, we need to know the full address of the location of use.											
WTB 1K-4NM	1,5	0,5	0,5	10	965-227	963-127						
WTB 3K-3NM	3	1	1	20	965-227	963-127						
WTB 6K-3NM	6	2	2	40	965-228	963-128						
WTB 10K-3NM	15	5	5	100	965-228	963-128						
WTB 30K-2NM	30	10	10	200	965-228	963-128						









All-round bench scale, protected by stainless steel and IP65 rating, also with EC type approval [M]

Features

- I Ideal for the ever-increasing hygienic requirements in the food, pharmaceutical and chemical industries
- Your support in a HACCP-compliant quality system
- ullet Ideal for the robust industrial applications
- I Protection against dust and water splashes IP65 (only when using rechargeable battery pack
- · High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- · Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple to clean
- · Recessed grips on the underside of the scale for easy transportation

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 230×190 mm
- Overall dimensions W×D×H 230×300×130 mm
- · Internal rechargeable battery pack, operating time up to 50 h without backlight, charging time approx. 12 h
- Net weight approx. 4,0 kg
- · Permissible ambient temperature KERN FFN-N: 0 °C/40 °C KERN FFN-NM: -10 °C/40 °C

Accessories

• Tare pan made from stainless steel. Ideal for weighing loose small parts as well as fruit, vegetables, etc., KERN RFS-A02

STANDARD











OPTION

S UNIT	665	ACCU	B H	DMS	1 DAY	DAkkS		M 3 DAYS
CEXT	3	ACCO	MOLII	DINIS	I DAI	+3 DATS	<u> </u>	3 DAT
lodel		Weig	hing ca	pacity	Rea	adability		Ve

Model	Weighing capacity	Readability	Verification value	Minimal load		Option		
						Verificatio	n DAkkS Calibr. Certificate	
	[Max]	[d]	[e]	[Min]		MIII	DAkkS	
KERN	kg	g	g	g		KERN	KERN	
FFN 1K-4N	1,5	0,2	-	=		-	963-127	
FFN 3K0.5IPN	3	0,5	-	-		-	963-127	
FFN 6K1IPN	6	1	-	=		-	963-128	
FFN 15K2IPN	15	2	-	-		-	963-128	
FFN 25K5IPN	25	5	-	-		-	963-128	
Note: F	or applications that re	equire verification of	ease order verification	n at the same time i	nitial verificat	ion at a later da	te is not possible	

	Verification at the factory, we need to know the full address of the location of use.											
FFN 1K-4NM	1,5	0,5	0,5	10	965-227	963-127						
FFN 3K1IPM	3	1	1	20	965-227	963-127						
FFN 6K2IPM	6	2	2	40	965-228	963-128						
FFN 15K5IPM	15	5	5	100	965-228	963-128						
FFN 25K10IPM	25	10	10	200	965-228	963-128						







Robust, space-saving bench scale, protected by stainless steel and IP68 rating

Features

- Suitable for the ever-increasing hygienic requirements in the food industry
- Your support in a HACCP-compliant quality system
- Ideal for the robust industrial applications
- Very high class of protection against dust and water IP68, ideal for harsh ambient conditions.
 Submersion in water actually possible
- Particularly suitable to determine the specific weight of organs, tissues, etc. in Pathology or in the laboratory
- Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple to clean
- Very fast display: steady weight values within 2 s
- High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Recessed grips on the underside of the scale for easy transportation

 Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading

Technical data

- Large backlit LCD display, (FXN-M: green) digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 236×195 mm
- Overall dimensions W×D×H 240×280×120 mm
- Ready for use: Batteries included, 4×1.5 V
 Size D, Operating time without backlight
 FXN-N up to 200 h, FXN-M 500 h, AUTO-OFF function to preserve the battery
- Net weight 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

 2 Tare pan made from stainless steel. Ideal for weighing loose small parts as well as fruit, vegetables, etc. W×D×H 370×240×20 mm, KERN RFS-A02

Note: Official verification is mandatory for commerical trade.

TANDARI

















DAKKS +3 DAYS



Model	Weighing	Readability	Verification	Minimal load	Smallest part	Option			
	capacity		value		weight	Verifica	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]	[Normal]	MIII		DAkkS	
KERN	kg	g	g	g	g/piece	KERN		KERN	
FXN 3K-4N	3	0,5	_	_	5	-		963-127	
FXN 6K-3N	6	1	-	-	10	-		963-128	
FXN 10K-3N	15	2	_	_	20	-		963-128	
FXN 30K-3N	30	5	_	_	50	-		963-128	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

	verification at the factory, we need to know the full address of the location of use.											
FXN 3K-3M	3	1	1	20	5	965-227	963-127					
FXN 6K-3M	6	2	2	40	10	965-228	963-128					
FXN 10K-3M	15	5	5	100	20	965-228	963-128					
FXN 30K-2M	30	10	10	200	50	965-228	963-128					







Stainless steel platform scales with IP65/67 protection, also with XL platform or EC type approval [M]

Features

- · Ideal for the robust industrial applications
- 11 Platform: made entirely of stainless steel, silicone-coated Stainless Steel load cell, protection against dust and water splashes IP67
- 2 Display device: Stainless steel, protection against dust and water splashes IP65, (only when using rechargeable battery pack)
- I SFB-H: Column, standard, for models with weighing plate size 300×240 mm: Height of stand approx. 200 mm 400×300 mm: Height of stand approx. 400 mm

Technical data

- Large backlit LCD display, digit height 52 mm
- · Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 3 $\mbox{\ensuremath{\text{m}}}$
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Data interface RS-232, interface cable included, approx. 1,5 m, must be ordered at purchase, RS 232 data interface including interface cable, KERN KFN-A01
- · Stand to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01
- 4 Stand to elevate display device, height of stand approx. 800 mm, KERN BFS-A07
- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not possible in combination with RS 232 data interface or verification, KERN KFB-A03
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD

































OPTION











								OLD-LIM			
Model	Weighing	Readability	Verification	Minimal load	Net weight	Weighing				Option	
	capacity		value			plate		Verificat	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]	approx.	W×D		MIII		DAkkS	
KERN	kg	g	g	g	kg			KERN		KERN	
SFB 50K-3XL	50	5	-	-	14	500×400		-		963-128	
SFB 100K-2XL	100	10	-	-	24	650×500		-		963-129	
				with	elevated displ	ay					
SFB 10K1HIP	10	1	-	-	8	300×240		-		963-128	
SFB 20K2HIP	20	2	-	-	8	300×240		-		963-128	
SFB 50K5HIP	50	5	-	-	8	300×240		-		963-128	
SFB 50K5LHIP	50	5	-	-	10	400×300		-		963-128	
SFB 100K10HIP	100	10	-	-	10	400×300		-		963-129	
Note: F	or application	s that require	verification, p	ease order ver	ification at the	e same time, i	nitial verificati	on at a later	date is r	not possible.	
		Verifica	ition at the fac	tory, we need	to know the fu	ull address of	the location of	use.			
SFB 60K-2XLM	60	20	20	400	14	500×400		965-229		963-129	
SFB 100K-2LM	150	50	50	1000	14	500×400		965-229		963-129	
SFB 100K-2XLM	150	50	50	1000	24	650×500		965-229		963-129	
				with	elevated displ	ay					
SFB 15K5HIPM	15	5	5	100	8	300×240		965-228		963-128	
SFB 30K10HIPM	30	10	10	200	8	300×240		965-228		963-128	
SFB 60K20LHIPM	60	20	20	400	10	400×300		965-229		963-129	
SER 100K-2HM	150	50	50	1000	10	400×300		965-229		963-129	







High-quality stainless steel platform scale with stainless steel IP68 display device – now also as high resolution version with high-resolution display



Piece counting

07



Recipe-weighing



Thanks to the stainless steel design of the evaluation unit and platform with smooth surface – the scale is rust-free and easy to clean



Features

- Ideal for the robust industrial applications
- In Platform: made entirely of stainless steel, hermetically welded stainless steel load cell, dust and spray protection to IP68. Substruction in wing design, extremely resistant to bending. Earthed weighing plate, to reduce static charge
- Display device: Stainless steel, protection against dust and water splashes IP68, integrated power supply
- Suitable for the ever-increasing hygienic requirements in the food industry
- · Wall mount for display device, standard
- Superior display size: digit height 55 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Easy-to use KERN menu structure with printout of weighing results which can be intuitively adapted
- Thanks to interfaces such as RS-232, RS-485 and Bluetooth (optional) the scale can easily be connected to existing networks and facilitates the data exchange between the scale and printer



Technical data

- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, stainless steel $\ensuremath{\mathsf{W}}\xspace{\mathsf{X}}\xspace{\mathsf{D}}\xspace{\mathsf{X}}\xspace{\mathsf{H}}$
- A 300×240×86 mm, see larger picture
- B 400×300×89 mm
- © 500×400×123 mm
- □ 650×500×133,5 mm
- Dimensions of display device W×D×H 232×170×80 mm
- Cable length of display device approx. 2,5 m



Accessories

- 2 Stand to elevate display device, for models with weighing plate size
 4 - D Height of stand approx. 200 mm, KERN IXS-A02
- **■**-**■** Height of stand approx. 400 mm, KERN IXS-A03
- **□**-**□** Height of stand approx. 600 mm, KERN IXS-A04
- Internal rechargeable battery pack, operating time up to 80 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN GAB-A04
- Data interface RS-232, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KXS-A04
- Data interface RS-485, must be ordered at purchase, KERN KXS-A01
- Foot switch, must be ordered at purchase, KERN KXS-A03
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KXS-A02
- Further details, plenty of further accessories and suitable printers see *accessories*

STANDARD	OPTION	FACTORY	
GLP A DATE OF THE PRINTER PCS TOL MOVE IP 68 230 V DMS 1 DAY 2 DAYS	DAKKS ET +3 DAYS	RS 232 RS 485 BT	ACCU +3 DAYS
		* *	

Model	Weighing	Readability	Verification	Minimal load	Linearity	Weighing		Option
	capacity		value			plate	Verification	DAkkS Calibr. Certificate
	[Max]	[d]	[e]	[Min]			MIII	DAkkS
KERN	kg	g	g	g	g		KERN	KERN
				High res	solution reada	bility		
SXS 6K-3	6	0,5	-	-	± 1,5	Α	-	963-128
SXS 10K-3	15	1	-	-	± 3	Α	-	963-128
SXS 10K-3L	15	1	-	-	± 3	В	-	963-128
SXS 30K-2	30	2	_	-	± 6	В	-	963-128
SXS 30K-2L	30	2	-	-	± 6	C	-	963-128
SXS 60K-2	60	5	_	-	± 15	В	-	963-129
SXS 60K-2L	60	5	-	-	± 15	C	-	963-129
SXS 100K-2	150	10	_	-	± 30	C	-	963-129
SXS 100K-2L	150	10	-	-	± 30	D	-	963-129
SXS 300K-2	300	20	-	-	± 60	D	_	963-129
	Dual	-range balance	e switches aut	omatically to t	he next larges	t weighing ca	pacity [Max] and readibility [d]	
SXS 6K-3M	3 6	1 2	1 2	20 40	± 1 2	Α	965-228	963-128
SXS 10K-3M	6 15	2 5	2 5	40 100	± 2 5	Α	965-228	963-128
SXS 10K-3LM	6 15	2 5	2 5	40 100	±2 5	В	965-228	963-128
SXS 30K-2M	15 30	5 10	5 10	100 200	± 5 10	В	965-228	963-128
SXS 30K-2LM	15 30	5 10	5 10	100 200	± 5 10	C	965-228	963-128
SXS 60K-2M	30 60	10 20	10 20	200 400	± 10 20	В	965-229	963-129
SXS 60K-2LM	30 60	10 20	10 20	200 400	± 10 20	C	965-229	963-129
SXS 100K-2M	60 150	20 50	20 50	400 1000	± 20 50	C	965-229	963-129
SXS 100K-2LM	60 150	20 50	20 50	400 1000	± 20 50	D	965-229	963-129
SXS 300K-2M	150 300	50 100	50 100	1000 2000	± 50 100	D	965-229	963-129

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

New model

^{*} Either RS-232 or RS-485 can be installed and used

KERN RFE Page 69

- > Large LCD display with four displays
- > TARE value display
- > Calculation of change
- > Stand to elevate display device
- Mains operation and rechargeable battery pack (optional)
- > Practical second display on the back of the balance



Price computing scales

KERN mobile retail scales are compact in size and therefore save space on the sales counter. Thanks to the simple menu structure they are easy to use – saving time and money. Fitted with mains or rechargeable batteries as standard, price computing scales can be used in retail shops as well as on mobile sales stalls.

All price computing scales from KERN have three displays showing you all important information at a glance:

- · Weight display in kg (verifiable)
- Unit price in €/kg or €/100 g
- Total price in €

NOTE: The KERN RFE range also displays the TARE or PRE-TARE value, which enables this value to be stored in a legally binding way in accordance with the Weights and Measures Act.

Even the KERN entry level retail scales have direct access keys for memories (> PLU), The sales item with the relevant price can be stored against these PLU. In this way, frequently used sales items can called up at lightning speed. This accelerates customer service and reduces waiting times.

► See the glossary on page 215-217

Quick-Finder Price computing scales

	Readability	Weighing	Model	Page		M		• MANA •		
		capacity			DAYS		CAL EXT	RS 232	MEMORY	ACCU
	[d]	[Max]				Fau an avala		h = =:=+== .		
	g	kg	KERN			For an expla	ination on t	ne pictos, s	see front flap	
	0,5 1	1,5 3	RPB 3K3DM	68	1	0	•	•	•	0
	0,5 1	1,5 3	RPB 3K3DHM	68	1	0	•			0
	1 2	3 6	RIB 6K-3M	67	1	0	•		•	0
	1 2	3 6	RIB 6K-3HM	67	1	0	•		•	0
ľ	1 2	3 6	RPB 6K1DM	68	1	0	•	•	•	0
	1 2	3 6	RPB 6K1DHM	68	1	0	•	•	•	0
	1 2	3 6	RFE 6K3M	69	1	0	•	•	•	0
	2 5	6 15	RIB 10K-3M	67	1	0	•		•	0
	2 5	6 15	RIB 10K-3HM	67	1	0	•		•	0
	2 5	6 15	RPB 15K2DM	68	1	0	•		•	0
	2 5	6 15	RPB 15K2DHM	68	1	0	•		•	0
	2 5	6 15	RFE 15K3M	69	1	0	•			0
	5 10	15 30	RIB 30K-2M	67	1	0	•		•	0
	5 10	15 30	RIB 30K-2HM	67	1	0	•		•	0
6	5 10	15 30	RPB 30K5DM	68	1	0	•		•	0
	5 10	15 30	RPB 30K5DHM	68	1	0	•	•	•	0
	5 10	15 30	RFE 30K3M	69	1	0	•	•	•	0
	News 2022							•	= standard	o = option









Robust retail scale with large item memory, user-friendly handling and EC type approval [M]

Features

- II KERN RIB-HM: Elevated display backlit, height of stand approx. 530 mm, must be ordered at purchase
- 🛮 KERN RIB-M: Second display on the rear of the balance
- Three displays for weight display (verifiable), unit price, total price
- Soil-resistant construction through water channels at the frame of the housing and sealing rings over the upper housing inlets
- · 10 Direct price keys for frequently recurring article prices
- · Memory (PLU) for 20 article prices
- Energy management: Backlight turns off after 5 s, can be switched off
- · Protective working cover included with delivery

Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions weighing surface, stainless steel, W×D 294×225 mm
- · Overall dimensions W×D×H KERN RIB-M: 325×400×115 mm KERN RIB-HM: 325×340×405 mm
- · Net weight KERN RIB-M: approx. 3,2 kg KERN RIB-HM: approx. 3,8 kg
- · Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN RIB-A01S05
- · Internal rechargeable battery pack, operating time up to 80 h without backlight, charging time approx. 14 h, KERN GAB-A04
- In Tare pan made of stainless steel, ideal for weighing loose small parts as well as fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02

Application examples

- retail shops
- weekly markets

965-228

- farm shops
- pick your own fruit and vegetable sales

Note: Official verification is mandatory for commerical trade.

STANDARD





RIB 30K-2HM













5 | 10



Model	Weighing capacity	Readability	Verification value	Minimal load		Option						
						Verification		DAkkS Calibr. Certificate				
	[Max]	[d]	[e]	[Min]		MIII		DAkkS				
KERN	kg	g	g	g		KERN		KERN				
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d]												
RIB 6K-3M	3 6	1 2	1 2	20 40		965-228		963-128				
RIB 10K-3M	6 15	2 5	2 5	40 100		965-228		963-128				
RIB 30K-2M	15 30	5 10	5 10	100 200		965-228		963-128				
with elevated display												
RIB 6K-3HM	3 6	1 2	1 2	20 40		965-228	965-228 963-12					
RIB 10K-3HM	6 15	2 5	2 5	40 100		965-228		963-128				

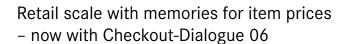
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

100 | 200

5 | 10

15 | 30







08

- Modern, ergonomic design and a housing which is even more compact, supporting efficient operation and saving space
- M KERN RPB-HM: Elevated display backlit, revolving on column, height of stand approx.
 480 mm, must be ordered at purchase
- 2 KERN RPB-M: Second display on the rear of the balance
- Three displays for weight display (verifiable), unit price, total price
- Memory (PLU) for 10 article prices
- Unit price can be switched from €/kg to €/100 g
- Auto-clear-key: Unit price entry is automatically set to zero when scale is unloaded

- Ill High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- · Protective working cover included with delivery

Technical data

- Large backlit LCD displays, digit height 15 mm
- Dimensions weighing surface, stainless steel, W×D 204×263 mm
- Overall dimensions W×D×H RPB-M: 263×313×108 mm RPB-HM: 263×313×480 mm
- Net weight KERN RPB-M: approx. 2,8 kg KERN RPB-HM: approx. 3,2 kg

DAkkS

+3 DAYS

Permissible ambient temperature -10 °C/40 °C

FACTORY

M









■ New: Checkout Dialog 06 – This dialog describes the communication procedure between a checkout scale in customer traffic and a freely programmable POS system, consisting of POS hardware and software. The aim of the Checkout Dialog 06 is to make manipulation of the data streams by third parties in principle impossible in freely programmable POS systems.

Note: Other protocols on request.

Accessories

- Protective working cover, scope of delivery:5 items, KERN RFC-A02S05
- Internal rechargeable battery pack, operating time up to 50 h without backlight, charging time approx. 12 h, KERN WTB-A01N
- Tare pan made of stainless steel, ideal for weighing loose small parts as well as fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02
- Further details, plenty of further accessories and suitable printers see Accessories

Application examples

- · retail shops
- weekly markets
- farm shops
- · pick your own fruit and vegetable sales

Note: Official verification is mandatory for commerical trade.

Model Weighing capacity Readability Verification value Minimal load Option Verification DAkkS Calibr. Certificate [Max] [d] [e] [Min] MIII DAkkS **KERN** kg g g KERN **KERN** Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d] **RPB 3K3DM** 965-227 963-127 1,5 | 3 0,5 | 1 0,5 | 1 963-128 RPB 6K1DM 1 | 2 20 965-228 3 | 6 1 | 2 RPB 15K2DM 963-128 6 | 15 2 | 5 2 | 5 965-228 RPB 30K5DM 15 | 30 5 | 10 5 | 10 100 963-128 965-228 with elevated display **RPB 3K3DHM** 1,5 | 3 0,5 | 1 0,5 | 1 10 965-227 963-127 **RPB 6K1DHM** 1 | 2 1 | 2 20 965-228 963-128 3 | 6 RPB 15K2DHM 6 | 15 2 | 5 2 | 5 40 965-228 963-128 **RPB 30K5DHM** 15 | 30 5 | 10 5 | 10 100 965-228 963-128

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

STANDARD









Compact portion scale with 2 XXL displays – weight, unit price, total price and TARE value at a glance

Features

- · Ideal as a salad scale, sweet scale, checkweigher, portion scale or zero-waste scale: Shopping without plastic or packaging waste in packaging-free supermarkets
- · Large LCD display with four displays for weight display (verifiable), unit price, total price and stored TARE or PRE-TARE value
- TARE value display: this shows a TARE or PRE-TARE value stored in a PLU, which enables this value to be stored in a legally binding way in accordance with the Weights and Measures Act
- II Second display on the rear of the balance
- 2 Column to elevate the display as standard, can be easily fitted or removed by the user. The power cable for the second display can be stored in the folding column which is hygienic and gives a tidy appearance. Column height approx. 395 mm
- 3 Thanks to easily-understandable, universal symbols e.g. for weight, piece weight, total price this balance can also be understood and operated easily all over the world

- 4 Direct price keys for frequently recurring article prices
- Memory (PLU) for 100 article prices
- · Article description can be entered, displayed and printed in plain text
- Unit price can be switched from EUR/kg to EUR/100 g
- · Auto-clear-key: Unit price entry is automatically set to zero when scale is unloaded
- 3 Headers and footers of the printout can be programmed directly on the balance
- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- · Recessed grips on the underside of the scale for easy transportation

Technical data

- · Large backlit LCD display, digit height 20 mm
- Dimensions weighing surface, stainless steel, W×D 230×300 mm
- Overall dimensions W×D×H 320×450×130 mm
- · Net weight approx. 4,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Label printer for printing weights on thermal labels, ASCII-capable, for further details, see Accessories, KERN YKE-01
- · Rechargeable battery pack internal, operating time up to 60 h with backlight, charging time approx. 12 h, KERN GAB-A04

Application examples

- · cafeterias, restaurants, Motorway service stations
- · retail shops
- weekly markets
- farm shops
- · pick your own fruit and vegetable sales

Note: Official verification is mandatory for commerical trade.





















Model	Weighing capacity	Readability	Verification value	Minimal load		Option					
		,						DAkkS Calibr. Certifi			
	[Max]	[d]	[e]	[Min]		MIII		DAkkS			
KERN	kg	g	g	g		KERN		KERN			
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d]											
RFE 6K3M	3 6	1 2	1 2	20		965-228		963-128			
RFE 15K3M	6 15	2 5	2 5	40		965-228		963-128			
RFE 30K3M	15 30	5 10	5 10	100		965-228		963-128			

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

KERN CCA

Page 80

- > High-resolution counting system with EC type approval
- Maximum number of countable parts is 999,999
- > High-precision reference scale
- > Robust quantity scale
- > Both scales can be used individually



Counting scales/Counting systems

Interesting facts about counting

Smallest part weight for piece counting

This is the smallest piece weight the scale will accept for piece counting and will display it piece by piece. In practice, depending on the required accuracy, we recommend to choose a counting scale with a minimum piece weight smaller than the weight of the item to be counted. To make it easier for you to select the right model, we specify the smallest part weight when counting under laboratory conditions and normal conditions, see the website.

► Counting resolution

Describes the maximum quantity which can be counted with a counting accuracy of 1 %, with a minimum variation of item weights and a sufficiently large ► reference quantity (20 pieces with counting resolution ≤ 60,000 points, 50 pieces from 60,000–150,000 points, 100 pieces ≥ 150,000 points). This therefore is an indication of the quality of the counting scale.

Recommended ▶ reference quantity

Weight tolerances of pieces to be counted are the most significant sources of error when counting. Therefore, at the start of every counting procedure, establish an average weight, the so-called **reference weight**, by placing several pieces on the balance, the so-called reference quantity. Usually this would be:

5 pieces >> often sufficient 10 pieces >> common practise

20-100 pieces >> for large deviations among piece weights

The "automatic **reference optimisation**" function increases the reference quantity gradually, whereby the average piece weight is optimised step by step. This contributes considerably to the accuracy of the subsequent counting processes.

Which counting scale for which application?

Simple counting scale

with self-explanatory user guidance on the keyboard. The graphic control panel enables you to start working immediately, without having to consult the user manual. Easy handling, value for money.

Professional counting scale

with 3 separate displays for reference weight (average weight of the pieces), total weight of all pieces and total quantity of all pieces. Very useful integrated memories, e.g. for container weight, item number, reference weight as well as audible and visual counting aids and an alphanumeric key pad for easy data entry.

Special tip for counting large quantities: Counting systems

The weighing capacities of bench counting scales are often not sufficient to count large quantities, units, palletized items, etc. Here high-performance counting systems come into operation, as these combine a high-precision reference scale with a high-capacity bulk scale.

► See the glossary on page 215-217

Quick-Finder Counting scales/Counting systems

Readability d]	Weighing capacity [Max]	Counting resolution	Model	Page	DAYS	M	CAL EXT	MEMORY	RS 232	□↔□	ACC
g kg		Points	KERN			For an e	explanation	on the pi	ctos, see f	ront flap	
0,001	0,3	60.000	CFS 300-3	76	1	,	•	•	•	•	C
),001	0,36	360.000	CKE 360-3	77	1		•		•		C
0,001	6	1.200.000	CCS 6K-6	82	2		•	•	•	•	-
),001),01	15 3	300.000	CCS 10K-6 CFS 3K-5	82 76	1		•	•	•	•	
0,01 0,01	3,6	360.000	CKE 3600-2	77	1		•		•		
,01	3 6	6.000.000	CCA 6K-5M	80	2	0	•	•	•		
,01	6 15	15.000.000	CCA 10K-5M	80	2	0	•	•	•	-	(
,01	30	600.000	CCS 30K0.01.	82	2		•	•	•	•	(
,01	15 30	30.000.000	CCA 30K-5M	80	2	0	•		•		(
,01	30 60	60.000.000	CCA 60K-5M	80	2	0	•	•	•		(
,01	60	1.200.000	CCS 60K0.01.	82	2		•	•	•		(
,01	60	1.200.000	CCS 60K0.01L.	82	2	0	•	•	•		
),01),01	60 150 150	150.000.000 3.000.000	CCA 100K-5M CCS 150K0.1L	80 82	2 2		•	•		•	
0,01 0,01	150 300	300.000.000	CCA 300K-5M	80	2*	0	•	•	•		
),01	300	6.000.000	CCS 300K0.01	82	2*		•	•	•	•	
,01	600	12.000.000	CCS 600K-2U	82	4*		•	•	•	•	
,02	4	200.000	CDS 4K0.02	79	1		•		•		C
,02	6	300.000	CKE 6K0.02	77	1		•		•		(
,05	8	160.000	CKE 8K0.05	77	1		•		•		(
,05	15	300.000	CDS 15K0.05	79	1		•		•		
,05	16	320.000	CKE 16K0.05	77	11		•		•		
,1	6	60.000	CPB 6K0.1N	75	1		•	•	•	•	
) <u>,1</u>),1	6 16	60.000	CFS 6K0.1 CKE 16K0.1	76 77	1		•	•	•		
),1	16	160.000	CDS 16K0.1	79	1		•		•	-	
),1	30	300.000	CCS 30K0.1.	82	2		•	•	•	•	
),1	30	300.000	CDS 30K0.1	79	1		•		•		(
,1	30	300.000	CDS 30K0.1L	79	1		•		•		(
,1	36	360.000	CKE 36K0.1	77	1		•		•		(
,1	60	600.000	CCS 60K0.1.	82	2		•	•	•	•	(
),1	60	600.000	CCS 60K0.1L.	82	2		•	•	•	•	(
),1	150	1.500.000	CCS 150K0.1.	82	2		•	•	•	•	(
),1	150	3.000.000	CCS 150K0.01L	82	2		•	•	•		•
),1),1	300 300 600	3.000.000 6.000.000	CCS 300K0.1 CCS 600K-1S	82 82	<u>2</u> 4*		•	•	•	•	
),1),1	300 600	6.000.000	CCS 600K-13	82	4*		•	•	•	•	
),1	600 1500	15.000.000	CCS 1T-4S	82	4*		•	•	•	•	
),1	600 1500	15.000.000	CCS 1T-4	82	4*		•		•	•	(
),1	1500	15.000.000	CCS 1T-1U	82	4*		•	•	•	•	(
),1	1500	15.000.000	CCS 1T-1L	82	4*		•	•	•	•	(
),1	1500 3000	30.000.000	CCS 3T-3	82	4*		•		•	•	(
),1	1500 3000	30.000.000		82	4*		•	•	•	•	(
0,1 0,2	3 6	60.000	IFS 6K-4S	78	1		•	•	•		(
0,1 0,2	6 15	75.000	IFS 10K-4	78 73	1		•	•	•	-	
),2),2	3	30.000	CIB 3K-4 CXB 3K0.2		<u>1</u> 1		•				
),2	15	60.000	CPB 15K0.2N	75	1		•		•		
),2	15	75.000	CFS 15K0.2	76	1		•	•	•	•	
),2	36	180.000	CDS 36K0.2L	79	1		•		•		(
),2	60	300.000	CDS 60K0.2	79	1		•		•		(
,2	65	325.000	CKE 65K0.2	77	1		•		•		(
,2 0,5	12 30	60.000	IFS 30K0.2DL	78	1		•	•	•		(
,5	6	30.000	CIB 6K-4	73	1		•				•
<u>,5</u>	6	30.000	CXB 6K0.5	74 75	1 1		•		•		- (
,5 ,5	30	60.000	CPB 30K0.5N CFS 30K0.5		1		•	•	•	•	
,5 ,5 1	30 60	60.000	IFS 60K0.5D	78	1		•	•	•		
,5 1 ,5 1	30 60	60.000	IFS 60K0.5DL	78	1		•	•	•		
, , , ,	3	30.000	CXB 3K1NM	74	1	0	•				
	15	30.000	CIB 10K-3	73	1		•				(
	15	30.000	CXB 15K1	74	1		•				(
	50	50.000	CFS 50K-3	76	1		•	•	•	•	(
2	3 6	30.000		80	1	0	•	•	•		(
2	3 6	60.000	IFS 6K-3SM	78	1		•	•	•		
2	3 6	60.000	IFS 6K-3M	78 75	1	0	•	•	•	-	
2 2	3 6 75 150	60.000	CPB 6K1DM IFS 100K-3		<u>1</u> 1		•	•	•		•
2	75 150	60.000	IFS 100K-3L	78	1		•	•	•		
1 /		00.000					_	_	_		•

 $^{^{\}star}$ Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Quick-Finder Counting scales/Counting systems

Readability	Weighing capacity	Counting resolution	Model	Page	DAYE	M	CALEY	MEMORY	- AAA	□↔□	ACCU
[d]	[Max]				DAYS		CAL EXT	MEMURT	RS 232	DUAL	ACCU
g	kg	Points	KERN			For an e	explanation	on the pic	ctos, see fi	ont flap	
2	30	30.000	CIB 30K-3	73	1		•				•
2	30	30.000	CXB 30K2	74	1		•				•
2 5	6 15	60.000	CPB 15K2DM	75	1	0	•				0
2 5	6 15	75.000	IFS 10K-3M	78	1	0	•	•			0
2 5	6 15	75.000	IFS 10K-3LM	78	1	0	•	•			0
2 5	6 15	75.000	IFS 300K-3	78	1		•	•			0
2 5	6 15	75.000	CCA 10K-4M	80	1	0	•	•	•		0
5	15	30.000	CXB 15K5NM	74	1	0	•				•
5	150	3.000.000	CCS 150K0.01	82			•				0
5 10	15 30	1.500.000	CCA 30K-4M	80	1	0	•				
10	30	30.000	CXB 30K10NM	74	1	0	•				•
10 20	30 60	60.000	IFS 60K-2M	78	1	0	•	•	•		0
10 20	30 60	60.000	IFS 60K-2LM	78	1	0	•	•		•	0
10 20	30 60	3.000.000	CCA 60K-4M	80	1	0	•	•	•		0
20 50	60 150	60.000	IFS 100K-2M	78	1	0	•				0
20 50	60 150	60.000	IFS 100K-2LM	78	1	0	•	•	•	•	0
20 50	60 150	7.500.000	CCA 100K-4M	80	1	0	•				
50	15 30	60.000	CPB 30K5DM	75	1	0	•		•		0
50	15 30	60.000	IFS 30K-3M	78	1	0	•	•	•		0
50	150	1.500.000	IFS 300K-2M	78	1	0	•	•	•	•	0
50 100	150 300	15.000.000	CCA 300K-4M	80	1	0	•	•	•		0

News 2022

 \bullet = standard \circ = option

 $^{^{\}star}$ Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs









Robust counting scale with large article memory, convenient operating philosophy and checkweighing display, counting resolution up to 30,000 points

Features

- Innovative counting with tolerance range (Checkweighing):
- The counting process can be supported visually and/or audibly and this therefore makes portion division, dispensing and grading easier
- visual signal: the colour of the display changes depending on the counting result (not enough/ok/too much)
- audible signal: the frequency of the audible signal changes depending on the counting result (not enough/ok/too much)
- · Ideal for workshops for people with disabilities, particularly loud or quiet environments, where operators change frequently, etc.
- Three displays for weight display, reference weight, total pieces
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
 - required reference quantity
 - known reference weight

- · Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- PRE-TARE function for manual subtraction of a known container weight, useful for checking
- · 20 direct price keys for frequently recurring reference weights and PRE-Tare values
- Memory for 50 reference weights and PRE-Tare
- · High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- · Two balances in one: Changes from counting mode to weighing mode at the touch of a key
- · Energy management: Backlight turns off after 5 sec, can be switched off
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD displays, digit height 18 mm
- · Dimensions weighing surface, Stainless Steel, W×D 350×215 mm Overall dimensions W×D×H, 350×330×120 mm
- Net weight approx. 4,0 kg
- · Permissible ambient temperature, Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN RIB-A01S05
- · Internal rechargeable battery pack, operating time up to 160 h without backlight, charging time approx. 14 h, KERN GAB-A04



















Model	Weighing capacity	Readability	Smallest part weight	Counting resolution	Option DAkkS Calibr. Certificate
KERN	[Max] kg	[d] g	[Normal] g/piece	Points	DAkkS KERN
CIB 3K-4	3	0,2	1	30.000	963-127
CIB 6K-4	6	0,5	2	30.000	963-128
CIB 10K-3	15	1	5	30.000	963-128
CIB 30K-3	30	2	10	30.000	963-128





Note: Official verification is mandatory for commerical trade.

Entry level model into professional counting, also with EC type approval [M], counting resolution of 30,000 points

Features

- · Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
- required reference quantity
- known reference weight
- Three displays for weight display, reference weight, total pieces
- · Audible Fill-to-target: target quantity or target weight can be programmed, e. g. for checkweighing. When the target value is reached, a signal will sound
- 10 memories for reference weights
- · Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- · Energy management: Backlight turns off after 5 sec

- PRF-TARF function for manual subtraction of a known container weight, useful for checking fill-levels
- Two balances in one: Changes from counting mode to weighing mode at the touch of a key
- Protective working cover included with delivery
- Internal rechargeable battery pack included with the delievery

Technical data

- · Large backlit LCD displays, digit height 18 mm
- · Dimensions weighing surface, Stainless Steel, W×D 300×225 mm
- Dimensions housing W×D×H, 300×330×110 mm
- · Internal rechargeable battery pack, operating time up to 200 h without backlight, charging time approx. 8 h
- · Net weight approx. 4,0 kg
- °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN CXB-A01S05
- · Internal rechargable battery pack, operating time up to 200 h without backlight, charging time approx. 8 h, KERN GAB-A04



















•	Permissible	ambient temperature -10 °C/40 °
OPTION	FACTORY	
54116	B.//	

Model	Weighing	Readability	Verification	Minimal	Smallest part	Counting	Net weight		(Option	
	capacity		value	load	weight	resolution		Verifica	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]	[Normal]		approx.	MIII		DAkkS	
KERN	kg	g	g	g	g/piece	Points	kg	KERN		KERN	
CXB 3K0.2	3	0,2	-	-	1	30.000	4,0	-		963-127	
CXB 6K0.5	6	0,5	-	-	2	30.000	4,0	-		963-128	
CXB 15K1	15	1	-	-	5	30.000	4,0	-		963-128	
CXB 30K2	30	2	-	-	10	30.000	4,2	-		963-128	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

	verification at the factory, we need to know the full address of the location of use.												
CXB 3K1NM	CXB 3K1NM 3 1 1 20 1 30.000 4,0 965-227 963-127												
CXB 6K2NM	6	2	2	40	2	30.000	4,2	965-228	963-128				
CXB 15K5NM	15	5	5	100	5	30.000	4,0	965-228	963-128				
CXB 30K10NM	30	10	10	200	10	30.000	4,2	965-228	963-128				





Note: Official verification is mandatory for commerical trade.

Professional model, also with EC type approval [M], counting resolution up to 60,000 points

Features

- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
 - required reference quantity
 - known reference weight
- Three displays for weight display, reference weight, total pieces
- · Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- · Fill-to-target function: Target count or target weight can be programmed. When the target weight is reached there is an audible and visual signal
- · PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels

- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- Two balances in one: Changes from counting mode to weighing mode at the touch of a key
- Protective working cover included with delivery

Technical data

- · Large backlit LCD displays, digit height 20 mm
- · Dimensions weighing surface, Stainless Steel, W×D 295×225 mm Overall dimensions W×D×H 315×350×105 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05
- · Internal rechargeable battery pack, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04
- II Signal lamp for visual support of weighing with tolerance range, only in combination with, KERN CFS-A03
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD





























Model	Weighing	Readability	Verification	Minimal load	Smallest part	Counting	Option			
	capacity		value		weight	resolution	Verifica	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]	[Normal]		MIII		DAkkS	
KERN	kg	g	g	g	g/piece	Points	KERN		KERN	
CPB 6K0.1N	6	0,1	-	-	1	60.000	-		963-128	
CPB 15K0.2N	15	0,2	-	-	2,5	60.000	-		963-128	
CPB 30K0.5N	30	0,5	-	-	5	60.000	-		963-128	

Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d]

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification	at the factory,	we need to know the full address of the location of use.

	Verification at the factory, we need to know the full address of the location of use.													
CPB 6K1DM	KIDM 3 6 1 2 1 2 20 1 60.000 965-228 963-128													
CPB 15K2DM	6 15	2 5	2 5	40	2,5	60.000	965-228	963-128						
CPB 30K5DM	15 30	5 10	5 10	100	5	60.000	965-228	963-128						







Professional, high-resolution counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 points

Features

- · Memory (PLU) for 100 items with additional text, reference weight and tare weight, e.g. of a container
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
 - required reference quantity
 - known reference weight
- Three displays for weight display, reference weight, total pieces
- · Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- Fill-to-target function Programmable target quantity or target weight. A signal will be displayed when the target value is reached
- · PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels

- Second balance interface to construct a high-resolution counting system, standard, e.g. with weighing bridges of KERN KFP V20
- · Draught shield standard for models with weighing plate size A, weighing space W×D×H 158×143×64 mm
- Protective working cover included with delivery, for models with weighing plate size Α, Β

Technical data

- · Large backlit LCD displays, digit height 20 mm
- · Dimensions weighing surface
 - Ø 80 mm
 - **B** W×D 295×225 mm
 - W×D 370×240 mm
- Overall dimensions W×D×H
- A 315×350×180 mm (incl. draught shield)
- **B** 315×350×180 mm
- 375×350×130 mm
- Permissible ambient temperature 0 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, for models with weighing plate size A, B, KERN CFS-A02S05
- · Internal rechargeable battery pack, operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04
- Signal lamp for visual support of weighing with tolerance range, only in combination with, KERN CFS-A03
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04
- · Further details, plenty of further accessories and suitable printers see Accessories





























Net weight Weighing plate

STA	ND	ARI

CALEX	MEMORY	RS 232	KCP PROTOCOL	□↔□ DUAL	SUI	M TOL	MULTI	DMS	1 DAY	ET	ACCU	DAI +3 D	
Мо	del			eighing anacity		Reada	bility		llest part		ounting		

	1			1		11100	-	
	capacity		weight	resolution			DAkkS Calibr. Co	ertificate
	[Max]	[d]	[Normal]		approx.		DAkkS	
KERN	kg	g	g/piece	Points	kg		KERN	
CFS 300-3	0,3	0,001	0,05	60.000	2,6	A	963-127	
CFS 3K-5	3	0,01	0,5	60.000	3,4	В	963-127	
CFS 6K0.1	6	0,1	1	60.000	3,2	В	963-128	
CFS 15K0.2	15	0,2	2	75.000	3,4	В	963-128	
CFS 30K0.5	30	0,5	5	60.000	3,4	В	963-128	
000 001/ 0		4	10	FO 000	4.4	0	0/0 100	







Easy to use, self-explanatory counting scale with laboratory accuracy, counting resolution up to 360,000 points

Features

- Self-explanatory graphic control panel, the workings steps can be understood immediately, even without operating instructions
 - no learning time = reduces costs
 - ideal for untrained users
- visualised process avoids operating errors
- The 4 steps are carried out from left to right:
 Place the empty container onto the weighing plate and tare by pressing the TARE key
 Place the reference quantity for the goods
- to be counted into the container (5, 10, 20 or any number of pieces)
- Onfirm the selected reference quantity by pressing the key (5, 10, 20 or any number of pieces)
- Pour in the goods to be counted. The number of pieces will immediately be shown in the display
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value

- Two balances in one: Changes from counting mode to weighing mode at the touch of a key
- Draught shield standard for models with weighing plate size Ø 81 mm, weighing space Ø 90×40 mm
- Protective working cover included with delivery

Technical data

- Large backlit display
- A, B digit height 9 mm
- digit height 18 mm
- · Dimensions weighing surface
- Ø 81 mm, plastic
- W×D 150×170 mm, stainless steel
- W×D 340×240 mm, stainless steel
- Overall dimensions W×D×H
- A, B 167×250×85 mm
- 350×390×120 mm
- Optional battery operation,6×1.5 V Size C not included, operating time up to 40 h, for models with weighing plate size
- Permissible ambient temperature 10 °C/40 °C

Accessories

- Protective working cover, scope of delivery:5 items, for models with weighing plate size
- M KERN PCB-A02S05
- **B** KERN PCB-A05S05
- KERN FKB-A02S05
- Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01
- Internal rechargable battery pack, operating time up to A, B 30 h, 90 h without backlight, charging time approx. 10 h,
 A, B KERN KB-01N
 - KERN PCB-A01
- USB data interface, for transferring weighing to the PC, printer etc., for models with weighing plate size , KERN CKE-A02
- Further details, plenty of further accessories and suitable printers see Accessories

	•			•	
STANDARD			 	OPTION	FACTO
CAL EXT RS 232 PRO		PCS UNIT	MULTI DMS 1 DAY	ET ACCU	DAkkS +3 DAYS USE

Model	Weighing	Readability	Smallest part	Counting	Net weight	Weighing plate	Option	
	capacity		weight	resolution			DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[Normal]		approx.		DAkkS	
KERN	kg	g	g/piece	Points	kg		KERN	
CKE 360-3	0,36	0,001	0,01	360.000	1	Α	963-127	
CKE 3600-2	3,6	0,01	0,1	360.000	1,8	В	963-127	
CKE 6K0.02	6	0,02	0,2	300.000	7	С	963-128	
CKE 8K0.05	8	0,05	0,5	160.000	7	C	963-128	
CKE 16K0.05	16	0,05	0,5	320.000	7	С	963-128	
CKE 16K0.1	16	0,1	1	160.000	7	C	963-128	
CKE 36K0.1	36	0,1	1	360.000	7	С	963-128	
CKE 65K0.2	65	0.2	2	325,000	7	С	963-129	







- · Dimensions of display device W×D×H 260×150×65 mm
- · Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

Industrial counting scale with convenient decimal keypad for easy data entry - now also with EC type approval [M], counting resolution up to 75000 points

Features

- · Tough industry standard suitable for use in harsh industrial applications
- Ergonomic display device with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- · Three displays for weight display, reference weight, total pieces
- 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- · Printout of date and time for GLP and GMP compliant data logging

- · Precise counting: The manual reference weight optimisation gradually improves the average value of the piece weight
- · Totalising of pieces when counting
- Protective working cover included with delivery

Technical data

- · Large backlit LCD displays, digit height 16,5 mm
- A 230×230×110 mm
- **B** 300×240×110 mm
- © 400×300×120 mm
- **■** 650×500×140 mm

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05
- Stand to elevate display device Height of stand approx. 330 mm, KERN IFB-A01 Height of stand approx. 600 mm, for

models with weighing plate size D, E, KERN IFB-A02

- Internal rechargable battery pack, operating time up to 40 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01
- ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01
- · Further details, plenty of further accessories and suitable printers see Accessories

- Dimensions weighing surface, Stainless Steel

 - D 500×400×140 mm

STANDARD						OPTION		FACTORY	
CAL EXT MEMORY RS		GLP	SUM PERCE		DMS 1 DA	-0	DAkkS +3 DAYS	ACCU	M
									IFS-M
Model	Weighing	Readability	Verification	Smallest part	Counting	Net weight	Weighing		

Model	Weighing	Readability	Verification	Smallest part	Counting	Net weight	Weighing				Option	
	capacity		value	weight	resolution		plate		Verifica	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Normal]		approx.			MIII		DAkkS	
KERN	kg	g	g	g/piece	Points	kg			KERN		KERN	
		Dual-range	balance swi	tches automati	cally to the ne	xt largest we	ighing cap	pacity [Max] a	nd readibility	[,] [d]		
IFS 6K-4S	3 6	0,1 0,2	-	1	60.000	4,6	А		-		963-128	
IFS 10K-4	6 15	0,1 0,2	-	2	75.000	6	В		-		963-128	
IFS 30K0.2DL	12 30	0,2 0,5	-	5	60.000	11	С		-		963-128	
IFS 60K0.5D	30 60	0,5 1	-	10	60.000	10	С		-		963-129	
IFS 60K0.5DL	30 60	0,5 1	-	10	60.000	12	D		-		963-129	
IFS 100K-3	75 150	1 2	-	25	60.000	12	D		-		963-129	
IFS 100K-3L	75 150	1 2	-	25	60.000	20	Е		-		963-129	
IFS 300K-3	150 300	2 5	-	50	60.000	22	Е		-		963-129	
Note	e: For applic			cation, please						date is n	ot possible.	
			Verification	at the factory, v	we need to kn	ow the full ac	ddress of t	he location of	f use.			
IFS 6K-3SM	3 6	1 2	1 2	1	60.000	6	А		965-228		963-128	
IFS 6K-3M	3 6	1 2	1 2	1	60.000	6	В		965-228		963-128	
IFS 10K-3M	6 15	2 5	2 5	2	75.000	6	В		965-228		963-128	
IFS 10K-3LM	6 15	2 5	2 5	2	75.000	10	C		965-228		963-128	
IFS 30K-3M	15 30	5 10	5 10	5	60.000	10	С		965-228		963-128	
IFS 60K-2M	30 60	10 20	10 20	10	60.000	11	C		965-229		963-129	
IFS 60K-2LM	30 60	10 20	10 20	10	60.000	13	D		965-229		963-129	
IFS 100K-2M	60 150	20 50	20 50	25	60.000	12	D		965-229		963-129	
IFS 100K-2LM	60 150	20 50	20 50	25	60.000	22	Е		965-229		963-129	
IFS 300K-2M	150 300	50 100	50 100	50	60.000	22	Е		965-229		963-129	







Easy to use industrial counting scale for heavy loads, counting resolution up to 300,000 points

Features

- Self-explanatory graphic control panel, the workings steps can be understood immediately, even without operating instructions
- no learning time = reduces costs
- ideal for untrained users
- visualised process avoids operating errors
- The 4 steps are carried out from left to right:
 Place the empty container onto the weighing plate and tare by pressing the TARE key
 Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
 Pour in the goods to be counted. The number of pieces will immediately be shown in the display
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- · Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 18 mm
- Dimensions weighing surface, Stainless Steel $\,$
 - M W×D 228×228 mm
 - **B** W×D 308×318 mm
 - W×D 450×350 mm
- Dimensions of display device W×D×H 225×115×60 mm
- Permissible ambient temperature 10 °C/40 °C

Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN DE-A12S05
- Mount to fasten the display device to the platform, for models with weighing plate size
 , an be reordered, KERN DE-A11N
- Stand to elevate display device, height of stand approx. 480 mm, can be reordered, KERN DE-A10
- Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01
- Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N
- Set for underfloor weighing, consists of platform, bow, hook, only for models with weighing plate S, KERN DS-A01
- Further details, plenty of further accessories and suitable printers see *Accessories*



Model	Weighing	Readability	Smallest part	Counting	Net weight	Cable length	Weighing plate	Option	
	capacity		weight	resolution				DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[Normal]		approx.	approx.		DAkkS	
KERN	kg	g	g/piece	Points	kg	m		KERN	
CDS 4K0.02	4	0,02	0,2	200.000	6	2	Α	963-127	
CDS 15K0.05	15	0,05	0,5	300.000	8	2	В	963-128	
CDS 16K0.1	16	0,1	1	160.000	8	2	В	963-128	
CDS 30K0.1	30	0,1	1	300.000	8	2	В	963-128	
CDS 30K0.1L	30	0,1	1	300.000	10	0,6	C	963-128	
CDS 36K0.2L	36	0,2	2	180.000	10	0,6	C	963-128	
CDS 60K0.2	60	0,2	2	300.000	10	0,6	C	963-129	



High-resolution counting system with EC type approval to count the smallest parts in large quantities, maximum number of parts which can be displayed is 999,999 – many new models now

Features

- The highly accurate KERN CCA counting system can replace a whole range of individual balances, efficiently and at a reasonable price
- Thanks to EC type approval, it is also suitable for use in verified applications
- The balances are connected to one another with an RS-232 Y-cable, which also allows you to connect an end unit, such as, for example, signal lamps, barcode scanners or printers

Reference scale KERN

- This precision balance, which can be used as an individual balance, also fulfils the highest demands through connection with a high-capacity weighing bridge
- Programmable using numerical key pad:
 - required reference quantity
- known reference weight
- Easy to use: All primary functions have their own key on the keypad
- Automatic internal adjustment, time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- USB data interface for transferring weighing data to the PC, printer etc. Can only be used in combination with KERN DBS-A02 accessories
- Draught shield standard for models with [Max] 600 g, Weighing space W×D×H 134×128×80 mm
- Protective working cover included with delivery

Quantity scale KERN IFS

- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN CCA. In this way even the smallest of parts can be counted in large volumes
- Tough industry standard suitable for use in harsh industrial applications
- Ergonomic display device with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- Three displays for weight display, reference weight, total pieces
- 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- Precise counting: The manual reference weight optimisation gradually improves the average value of the piece weight
- · Totalising of pieces when counting
- Printout with date and time
- Aluminium singlepoint load cell (1×3000 e), protection against dust and water splashes IP65
- Protective working cover included with delivery













Technical data

Reference scale KERN EWJ

- Overall dimensions
 [Max] 600 g: 220×340×180 mm (incl. draught shield)
 [Max] 6000 g: 220×315×90 mm
- Dimensions of weighing surface, stainless steel, [Max] 600 g: Ø 120 mm
 [Max] 6000 g: B×T 155×145 mm
- Net weight [Max] 600 g: 3,2 kg [Max] 6000 g: 3,4 kg
- Connection cable approx. 1,5 m

Quantity scale KERN IFS

- Dimensions of weighing plate
 - **A** 300×240×110 mm
 - **B** 400×300×120 mm
- © 500×400×140 mm
- **1** 650×500×140 mm

Accessories

Reference scale KERN EWJ

- In Protective working cover, scope of delivery:
 5 items, KERN EWJ-A04S05
- Internal rechargable battery pack, operating time up to 15 h without backlight, charging time approx. 4h, KERN KFB-A01

Quantity scale KERN IFS

- Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05
- Stand to elevate display device
 Height of stand approx. 330 mm,
 KERN IFB-A01
 Height of stand approx. 600 mm, for
 models with weighing plate size , D,
 KERN IFB-A02
- Internal rechargable battery pack, operating time up to 18 h without backlight, charging time approx. 12 h, Factory Option, KERN KFB-A01
- Signal lamp for visual support of weighing with tolerance range, only in combination with CCA-A02, KERN CFS-A03
- · Y-cable, RS-232, KERN CCA-A01
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

STANDARD

OPTION
FACTORY

OPTION
FACTORY

OPTION
FACTORY

OPTION
FACTORY

OPTION
FACTORY

ACCU +3 DAYS

EWJ IFS
EWJ IFS
EWJ

FERCEN

Model	Weighing capacity	Readability	Weighing	Weighing capacity	Readability	Counting	Smallest part		Optio	n
	Quantity scale	Quantity scale	plate	Reference scale	Reference scale	resolution	weight		Verifica	tion
	[Max]	[d]		[Max]	[d]		[Normal]		MIII	
KERN	kg	g		g	g	Points	g/piece		KERN	
Note	: For applications t	hat require verifi	cation, pl	ease order verificat	ion at the same t	time, initial verifi	cation at a later	date is not po	ssible.	
		Verification	at the fac	tory, we need to kn	ow the full addre	ss of the locatio	n of use.			
CCA 6K-5M	3 6	1 2	Α	600	0,01	30.000	0,2		965-228-216	
CCA 6K-4M	3 6	1 2	Α	6000	0,1	30.000	0,2		965-228-217	
CCA 10K-5M	6 15	2 5	Α	600	0,01	75.000	0,2		965-228-216	
CCA 10K-4M 🔤	6 15	2 5	Α	6000	0,1	75.000	0,2		965-228-217	
CCA 30K-5M	15 30	5 10	В	600	0,01	150.000	0,2		965-228-216	
CCA 30K-4M 🔤	15 30	5 10	В	6000	0,1	1.500.000	0,2		965-228-217	
CCA 60K-5M	30 60	10 20	В	600	0,01	300.000	0,2		965-229-216	
CCA 60K-4M 🔤	30 60	10 20	В	6000	0,1	3.000.000	0,2		965-229-217	
CCA 100K-5M	60 150	20 50	C	600	0,01	750.000	0,2		965-229-216	
CCA 100K-4M	60 150	20 50	C	6000	0,1	7.500.000	0,2		965-229-217	
CCA 300K-5M	150 300	50 100	D	600	0,01	1.500.000	0,2	, and the second	965-229-216	
CCA 300K-4M	150 300	50 100	D	6000	0,1	15.000.000	0,2		965-229-217	

New model

Features

 The highly accurate KERN CCS counting system can replace a whole range of individual balances, efficiently and at a reasonable price

Reference scale KERN CFS

- This professional counting scale, which can also be used as a stand-alone scale, meets the highest demands for accuracy, weighing capacity and volume of items, by being connected to a high-capacity weighing bridge
- Programmable using numerical key pad:
- required reference quantity
- known reference weight
- Three displays for weight display, reference weight, total pieces
- Memory (PLU) for 100 items with additional text, reference weight and tare weight, e.g. of a container
- Fill-to-target function: Target count or target weight can be programmed. When the target weight is reached there is an audible and visual signal
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- · Protective working cover included with delivery

Quantity scale KERN

 The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge). In this way even the smallest of parts can be counted in large volumes

KFP-V20 IP67, KFU-V20

- Stainless steel weighing plate, painted steel base, for models with weighing plate size
- Aluminium singlepoint load cell (1×3000 e), protection against dust and water splashes

KFP-V20 IP67, KIP-V20M

- Weighing bridge made of non-slip corrugated steel plate, lacquered, for models with weighing plate size ■--
- · 4 load cells, steel, silicone-coated, IP67

KFU-V20

- Load range: painted steel
- · 4 load cells, alloy steel, silicone-coated, IP67

09











Technical data

Reference scale KERN CFS

- Overall dimensions W×D×H 315×350×180 mm
- · Dimensions weighing surface, stainless steel ■ CFS 300-3: Ø 80 mm CFS 3K-5, CFS 6K0.1: W×D 295×225 mm
- · Draught shield standard for models with weighing plate size Ø 80 mm, weighing space B×T×H 158×143×64 mm
- · Net weight approx. 2,6 kg

Quantity platforms, KERN KFP-V20 IP65

- · Weighing plate dimensions W×D×H, stainless steel
- A 230×230×110 mm
- B 300×240×110 mm
- @ 400×300×125 mm
- D 500×400×137 mm
- **■** 650×500×135 mm

Bulk weighing bridges, KFP-V20 IP67

- Weighing plate dimensions W×D×H, steel, painted

Bulk pallet load handling, KERN KFU-V20

- · Weighing plate dimensions W×D×H, steel, painted
- **6** 840×1300×90 mm

Quantity platforms KERN KIP-V20

- · Weighing plate dimensions W×D×H, stainless steel
 - **Ⅲ** 1000×1000×108 mm
- 1500×1200×108 mm
- 1500×1500×108 mm
- · Connection cable approx.
- A E 2.5 m
- F-J 5 m

Accessories

- Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05
- 3 Internal rechargeable battery pack, operating time up to 60 h without backlight, charging time approx. 12 h, KERN GAB-A04
- Signal lamp for visual support of weighing with tolerance range, only in combination with, KERN CFS-A03
- 5 Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04
- Further details, plenty of further accessories and suitable printers see Accessories
- Information on other high-capacity bulk balances, such as, for example, pallet scales, drive-through scales or floor scales is available on request, for information on other counting systems with the KERN CFS reference balance (d = 0.1 g), please refer to the website

■ 1500×1250×80 mm

STANDARD

































Model	Weighing capacity	Readability	Weighing	Weighing capacity	Readability	Counting	Smallest part		Option	
	Quantity scale	Quantity scale		Reference scale		resolution	weight		DAkkS Calibr. Cer	rtificate
	[Max]	[d]		[Max]	[d]		[Normal]		DAkkS	
KERN	kg	g		g	g	Points	g/piece		KERN	
CCS 6K-6	6	0,2	А	300	0,001	1.200.000	0,05	0	962-128-127	
CCS 10K-6.	15	0,5	В	300	0,001	3.000.000	0,05		962-128-127	
CCS 30K0.01.	30	1	C	3000	0,01	600.000	0,5		962-128-127	
CCS 30K0.1.	30	1	C	6000	0,1	300.000	1		962-128-128	
CCS 60K0.01.	60	2	C	3000	0,01	1.200.000	0,5		962-129-127	
CCS 60K0.01L.	60	2	D	3000	0,01	1.200.000	0,5		962-129-127	
CCS 60K0.1.	60	2	C	6000	0,1	600.000	1		962-129-128	
CCS 60K0.1L.	60	2	D	6000	0,1	600.000	1		962-129-128	
CCS 150K0.01	150	5	D	3000	0,01	3.000.000	0,5		962-129-127	
CCS 150K0.01L	150	5	Е	3000	0,01	3.000.000	0,5		962-129-127	
CCS 150K0.1.	150	5	D	6000	0,1	1.500.000	1		962-129-128	
CCS 150K0.1L	150	5	Е	6000	0,1	1.500.000	1		962-129-128	
CCS 300K0.01	300	10	Е	3000	0,01	6.000.000	0,5		962-129-127	
CCS 300K0.1	300	10	Е	6000	0,1	3.000.000	1		962-129-128	
CCS 600K-1S*	600	200	Н	6000	0,1	6.000.000	1		962-130-127	
CCS 600K-1*	600	200		6000	0,1	6.000.000	1		962-130-127	
CCS 600K-2U*	600	200	G	3000	0,01	12.000.000	0,5		962-130-127	
CCS 1T-4S*	1500	500	Н	6000	0,1	15.000.000	1		962-130-128	
CCS 1T-4*	1500	500		6000	0,1	15.000.000	1		962-130-128	
CCS 1T-1L*	1500	500	F	6000	0,1	15.000.000	1		962-130-128	
CCS 1T-1U*	1500	500	G	6000	0,1	15.000.000	1		962-130-128	
CCS 3T-3*	3000	1000		6000	0,1	30.000.000	1		962-132-128	
CCS 3T-3L*	3000	1000	J	6000	0,1	30.000.000	1		962-132-128	

KERN IOC Page 95/96

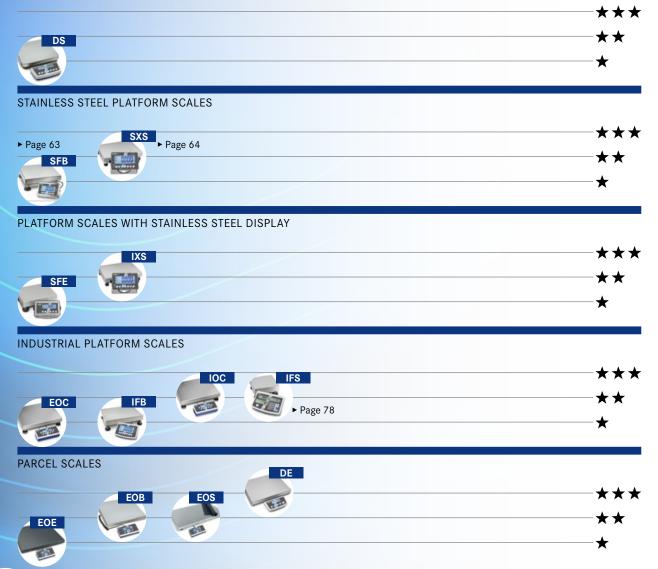
- Industry 4.0: A wide range of (optional) data interfaces allows easy transfer of weighing data
- Integrated KERN Communication Protocol (KCP), ideal for connecting an Merchandise Management or ERP system
- > Compatible with KERN EasyTouch App



Parcel scales/Platform scales

Here you'll find a complete summary of the KERN platform scales series and their positioning within the platform scales segment on the basis of application, price-performance ratio and functional volume

Precision platform scales



Quick-Finder Parcel scales/Platform scales

Readability	Weighing capacity [Max]	Weighing plate W×D×H	Model	Page	DAYS	CAL EXT			КСР	PCS	ååå IP	BATT	ACC
[d] g	liviaxj kg	mm	KERN			For an ex	planation (on the	pictos	, see f	ront fla	 ар	
0,01	3	228×228×95	DS 3K0.01S	98	1	•				•			0
0,05	5	228×228×95	DS 5K0.05S	98	1	•				•			0
0,05	8	308×318×75	DS 8K0.05	98	1	•	(•			0
0,1	3	230×230×110	IFB 3K-4	97	1	•			•	•	•		0
0,1	10	228×228×95	DS 10K0.1S	98	1	•							0
0,1	16	315×308×75	DS 16K0.1	98	1	•				•			0
0,1	20	308×318×75	DS 20K0.1	98	1	•				•			0
0,1	30	308×318×75	DS 30K0.1	98	1	•				•			0
0,1	30	450×350×115	DS 30K0.1L	98	1	•				•			С
0,1 0,2	3 6	300×300×110	IOC 6K-4	95	1	•							C
0,2	6	230×230×110	IFB 6K-4S	97	1	•			•	•	•		0
0,2	6	300×240×110	IFB 6K-4	97	1	•			•	•	•		0
0,2	6	300×240×86	IXS 6K-4	100	1	•				•	•		- 0
0,2	36	308×318×75	DS 36K0.2	98	1	•				•			C
0,2	36 60	450×350×115 450×350×115	DS 36K0.2L DS 60K0.2	98 98	<u>1</u> 1	•				•			
0,2 0,5	6 15	300×240×110	IOC 10K-4	95	1	•			•				
0,2 0,5	6 15	318×308×88	DE 15K0.2D	91	1	•				•		•	0
0,2 0,5	6 15	300×300×110	EOC 10K-4	93	1	•			•	•			
0,2 0,5	6 15	400×300×110	IOC 10K-4L	95	1	•				•			
0,5	6	318×308×75	DE 6K0.5A	91	1	•				•		•	
0,5	6	300×300×110	EOC 6K-4A	93	1	•			•	•	•		
0,5	15	300×240×110	IFB 10K-4	97	1	•			•	•	•		-
0,5	15	400×300×128	IFB 10K-4L	97	1	•			•	•	•		(
0,5	15	300×240×86	IXS 10K-4	100	1	•	()		•	•		(
0,5	15	400×300×89	IXS 10K-4L	100	1	•	()		•	•		(
0,5	65	450×350×115	DS 65K0.5	98	1	•				•			(
0,5	100	450×350×115	DS 100K0.5	98	1	•				•			(
0,5 1	15 30	400×300×110	IOC 30K-4	95	1	•	0				•		(
0,5 1	15 35	318×308×88	DE 35K0.5D	91	1	•				•	•	•	(
0,5 1	15 35	300×300×110	EOC 30K-4S	93	1	•			•	•	•		
0,5 1	15 35	500×400×120	EOC 30K-4	93	1	•				•	•		
1	12	318×308×75	DE 12K1A	91	1	•				•	•	•	-
1	12	300×300×110	EOC 10K-3A	93	1	•			•	•	•		
1	30	400×300×128	IFB 30K-3	97	1	•				•	•		
1	30	400×300×89	IXS 30K-3	100	1	•				•	•		(
1	30	500×400×123	IXS 30K-3L	100	1	•				•	•		-
-	150	450×350×115 318×308×75	DS 150K1 DE 6K1D	98 91	1	•				•	•		(
2	3 6	300×300×110	EOC 6K-3	93	1				•	•	•		
2	3 6	300×300×110	IOC 6K-3M	95	1	0			•	•	•		
2	3 6	300×300×110	IFB 6K1DM	97	1	0			•	•	•		
2	3 6	230×230×110	IFB 6K-3SM	97	1	0			•	•	•		
2	3 6	300×240×86	IXS 6K-3M	100	1	0)		•	•		
2	30 60	318×308×88	DE 60K1D	91	1	•				•	•	•	(
2	30 60	400×300×110	IOC 60K-3	95	1	•					•		(
2	30 60	500×400×120	IOC 60K-3L	95	1	•			•	•	•		(
2	30 60	522×406×98	DE 60K1DL	91	1	•				•	•	•	(
2	30 60	300×300×110	EOC 60K-3	93	1	•			•	•	•		(
2	30 60	500×400×120	EOC 60K-3L	93	1	•			•	•	•		
2	6	300×240×110	SFE 6K-3NM	99	1	0					•		(
2	24	318×308×75	DE 24K2A	91	1	•				•	•	•	(
2	24	300×300×110	EOC 20K-3A	93	1	•			•	•	•		(
2	60	400×300×128	IFB 60K-3	97	1	•			•	•	•		
2	60	500×400×130	IFB 60K-3L	97	1	•			•	•	•		
2	60	400×300×89	IXS 60K-3	100	1	•)		•	•		
2	60	500×400×123	IXS 60K-3L	100	1	•				•	•		
5	6 15	318×308×75	DE 15K2D	91	1	•				•	•	•	
5	6 12	300×300×110	EOC 10K-3	93	1	•			•	•	•		
5	6 15	300×240×110	IOC 10K-3M	95	1	0 •			•	•	•		
5	6 15	400×300×110	IOC 10K-3LM	95	1				•	•	•		
5	6 15	300×240×110	IFB 15K2DM IFB 15K2DLM	97 97	1	0			•	•	•		-
5	6 15	400×300×128 300×240×86	IXS 10K-3M	100	1	0 •			•	•	•		
5 5	6 15	400×300×89	IXS 10K-3M	100	1	0 •)		•	•		
5	60 150	318×308×88	DE 150K2D	91	1	•		•		•	•	•	
5	60 150	318×308×88 300×300×110	EOC 100K-3	93	1	•			•	•	•		
5	60 150	500×400×120	IOC 100K-3	95	1	•							
5	60 150	522×406×98	DE 150K2DL	91	1	•				•		•	
	1 .00	00 /0		/ 1					•	-			

News 2022

• = standard • = option

^{*} Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Quick-Finder Parcel scales/Platform scales

Readability [d]	Weighing capacity [Max]	Weighing plate W×D×H	Model	Page	DAYS	M	CAL EXT	ALIBI	RS 232	KCP PROTOCOL	PCS	ååå IP	BATT	ACCU
g	kg	mm	KERN			F	or an ex	planat	ion on t	he picto	os, see	front fla	ар	
2 5	60 150	650×500×150	IOC 100K-3L	95	1		•	0	•	•	•	•		0
5	15	315×305×57	EOE 10K-3	88	1		•						•	
5	15	315×305×57	EOB 15K5	89	1		•						•	
5	15	300×240×110	SFE 10K-3NM	99	1	0	•					•		•
5	15 60	400×300×130 318×308×75	SFE 10K-3LNM DE 60K5A	99	<u>1</u> 1	0	•		•		•	•		•
5	60	300×300×110	EOC 60K-3A	93	1		•		•	•	•	•		-
5	150	500×400×130	IFB 100K-3	97	1		•		•	•	•	•		-
5	150	650×500×142	IFB 100K-3L	97	1		•		•	•	•	•		0
5	150	500×400×123	IXS 100K-3	100	1		•		0		•	•		0
5	150	650×500×133,5	IXS 100K-3L	100	2*		•		0		•	•		0
5 10	15 35	318×308×75	DE 35K5D	91	1		•		•		•	•		0
5 10	15 35 15 35	522×403×83 300×300×110	DE 35K5DL EOC 30K-3	91 93	1		•		•	•	•	•	•	0
5 10	15 35	500×400×120	EOC 30K-3L	93	1		•		•	•	•	•		0
5 10	15 30	400×300×110	IOC 30K-3M	95	<u>'</u>	0	•	0	•	•	•	•		-
5 10	15 30	400×300×128	IFB 30K5DM	97	1	0	•		•		•	•		0
5 10	15 30	400×300×89	IXS 30K-2M	100	1	0	•		0		•	•		0
5 10	15 30	500×400×123	IXS 30K-2LM	100	1	0	•		0		•	•		0
5 10	150 300	522×406×98	DE 300K5DL	91	1		•		•		•	•	•	0
5 10	150 300	500×400×120	EOC 300K-3	93	1		•		•	•	•	•		0
5 10	150 300	650×500×150	IOC 300K-3	95	1		•	0		•		•		0
10	30 35	300×240×110 315×305×57	SFE 30K-2NM EOE 30K-2	99 88	<u>1</u> 1	0	•			-		•	•	•
10	35	315×305×57	EOB 35K10	89	1		•			-				
10	120	318×308×75	DE 120K10A	91	1		•		•		•	•		0
10	120	500×400×120	EOC 100K-2A	93	1		•			•	•	•		0
10	300	650×500×142	IFB 300K-2	97	1		•					•		0
10	300	650×500×133,5	IXS 300K-2	100	2*		•		0		•	•		0
10 20	30 60	318×308×75	DE 60K10D	91	1		•		•		•	•	•	0
10 20	30 60	522×403×83	DE 60K10DL	91	1		•		•		•	•		0
10 20	30 60	300×300×110 500×400×120	EOC 60K-2 EOC 60K-2L	93 93	<u>1</u> 1		•		•	•	•	•		0
10 20	30 60	400×300×110	IOC 60K-2M	95	1	0	•	0	•	•	•	•		-
10 20	30 60	500×400×120	IOC 60K-2LM	95	1	- -	•	0	•	•	•	•		0
10 20	30 60	400×300×128	IFB 60K10DM	97	1	0	•				•	•		0
10 20	30 60	500×400×130	IFB 60K10DLM	97	1	0	•		•	•	•	•		0
10 20	30 60	400×300×89	IXS 60K-2M	100	1	0	•		0		•	•		0
10 20	30 60	500×400×123	IXS 60K-2LM	100	1	0	•		0		•	•		0
10 20	300 600	800×600×200	IOC 600K-2	95	2*		•	0	•	•		•		0
20	60	315×305×57 550×550×58	EOE 60K-2 EOE 60K-2L	88 88	<u>1</u> 1		•						-	
20	60	315×305×57	EOB 60K20	89	<u>'</u> 1		•							
20	60	550×550×58	EOB 60K20L	89	1		•						•	
20	60	400×300×130	SFE 60K-2NM	99	1	0	•					•		•
20	60	500×400×140	SFE 60K-2LNM	99	1	0	•					•		•
20	600	800×600×200	IFB 600K-2	97	2*		•		•	•	•	•		0
20 50	60 150	318×308×75	DE 150K20D	91	1		•		•	-	•	•		0
20 50	60 150	522×403×83 650×500×89	DE 150K20DL DE 150K20DXL	91 91	1		•		•		•	•	•	0
20 50	60 150	300×300×89	EOC 100K-2	91	1		•		•	•	•	•		0
20 50	60 150	500×400×120	EOC 100K-2L	93	1		•		•	•	•	•		0
20 50	60 150	600×500×150	EOC 100K-2XL	93	1		•		•	•	•	•		0
20 50	60 150	950×500×60	EOC 100K-2XXL	93	1		•		•	•	•	•		0
20 50	60 150	500×400×120	IOC 100K-2M	95	1	0	•	0	•	•	•	•		0
20 50	60 150	650×500×150	IOC 100K-2LM	95	1	0	•	0	•	•	•	•		0
20 50	60 150	500×400×130	IFB 150K20DM	97	1	0	•		•	•	•	•		0
20 50	60 150	650×500×142 500×400×123	IFB 150K20DLM IXS 100K-2M	97	<u>1</u> 1	0	•		0	•	•	•		0
20 50	60 150	650×400×123	IXS 100K-2M	100	2*	0	•		0		•	•		0
50	150	315×305×57	EOE 100K-2	88	1		<u> </u>						•	
50	150	550×550×58	EOE 150K50L	88	1		•						-	
50	150	950×500×58	EOE 150K50XL	88	1		•						•	
50	150	315×305×57	EOB 150K50	89	1		•						•	
50	150	550×550×58	EOB 150K50L	89	1		•						•	
50	150	950×500×58	EOB 150K50XL	89	1		•						•	
50	150	950×500×58	EOS 150K50XL	90	1		•						•	
50	150 150	400×300×130 500×400×140	SFE 100K-2NM SFE 100K-2LNM	99	1 1	0	•					•		•
50	150	650×500×140	SFE 100K-2LNM	99	1	0	•					•		
J U	100	0000000140	OI L TOUR-ZALINIVI	77	1									

News 2022

● = standard O = option

^{*} Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Quick-Finder Parcel scales/Platform scales

Readability [d]	Weighing capacity [Max]	Weighing plate W×D×H	Model	Page	DAYS	M	CAL EXT	ALIBI	RS 232	KCP PROTOCOL	PCS	ååå IP	BATT	ACCU
g	kg	mm	KERN			F	or an e	xplanat	ion on t	he pict	os, see	front fla	ар	
50 100	150 300	522×403×83	DE 300K50D	91	1		•		•		•	•	•	0
50 100	150 300	650×500×95	DE 300K50DL	91	1		•		•		•	•	•	0
50 100	150 300	500×400×120	EOC 300K-2	93	1		•		•	•	•	•		0
50 100	150 300	600×500×150	EOC 300K-2L	93	1		•		•	•	•	•		0
50 100	150 300	650×500×150	IOC 300K-2M	95	1	0	•	0	•	•	•	•		0
50 100	150 300	650×500×142	IFB 300K50DM	97	1	0	•		•		•	•		0
50 100	150 300	650×500×133,5	IXS 300K-2M	100	2*	0	•		0		•	•		0
100	300	315×305×57	EOE 300K100	88	1		•						•	-
100	300	550×550×58	EOE 300K100L	88	1		•						•	
100	300	950×500×58	EOE 300K100XL	88	1		•						•	
100	300	315×305×57	EOB 300K100A	89	1		•						•	
100	300	550×550×58	EOB 300K100L	89	1		•						•	
100	300	950×500×58	EOB 300K100XL	89	1		•						•	
100	300	950×500×58	EOS 300K100XL	90	1		•						•	
100	300	650×500×140	SFE 300K-1LNM	99	1	0	•					•		•
100 200	300 600	800×600×200	IOC 600K-1M	95	2*	0	•	0	•	•	•	•		0
100 200	300 600	800×600×200	IFB 600K-1M	97	2*	0	•		•	•	•	•		0

News 2022

^{*} Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs





Parcel scales with big platform for fast and easy weighing in the office, production, dispatch etc.

Features

- · High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- · Wall mount for display device, standard
- · Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value

Technical data

- Large LCD display, digit height 25 mm
- · Weighing plate dimensions, steel, painted W×D×H
 - 315×305×57 mm
 - 550×550×58 mm, see larger picture
 - © 950×550×58 mm
- Dimensions of display device W×D×H 235×114×51 mm
- · Cable length display device, spiral cable, approx. 0.7 - 2 m
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 100 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A04BS05
- · Stand to elevate display device, for models with weighing plate size ${\rm I\! A}$, column height approx. 480 mm KERN EOB-A01N
- · Stand to elevate display device, height of stand approx. 1000 mm, can be reordered, KERN EOB-A02B
- · External universal mains adapter, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-16
- Non-slip rubber mat W×D×H 945×505×5 mm, KERN EOE-A01















OPTION

Model	Weighing	Readability	Reproducibility	Weighing plate	Net weight	Option
	capacity					DAkkS Calibr. Certificate
	[Max]	[d]			approx.	DAkkS
KERN	kg	g	g		kg	KERN
EOE 10K-3	15	5	5	А	4,0	963-128
EOE 30K-2	35	10	10	А	4,0	963-128
EOE 60K-2	60	20	20	А	3,8	963-129
EOE 60K-2L	60	20	20	В	14	963-129
EOE 100K-2	150	50	50	А	4	963-129
EOE 150K50L	150	50	50	В	14	963-129
EOE 150K50XL	150	50	50	C	18	963-129
EOE 300K100	300	100	100	Α	3,6	963-129
EOE 300K100L	300	100	100	В	14	963-129
EOE 300K100XL	300	100	100	С	18	963-129







Allround parcel scale with robust stainless steel weighing plate - also with XL platform and large weighing ranges

Features

- · Weighing plate stainless steel, painted steel base
- Simple and convenient 4-key operation
- · Wall mount for display device, standard
- · Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- · Protective working cover included with delivery
- Universal external mains adapter included with delivery

Technical data

- Large LCD display, digit height 25 mm
- · Weighing plate dimensions, stainless steel W×D×H
 - 315×305×57 mm
- 550×550×58 mm, see larger picture
- © 950×500×58 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Cable length of display device approx. 1,8 m
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A04BS05
- II Stand to elevate display device, height of stand approx. 1000 mm, can be reordered, KERN EOB-A02B
- Stand to elevate display device Column height approx. 480 mm, KERN EOB-A01N
- Non-slip rubber mat W×D×H 945×505×5 mm, KERN EOE-A01

STANDARD

















Model	Weighing	Readability	Reproducibility	Linearity	Net weight	Weighing plate	Option
	capacity						DAkkS Calibr. Certificate
	[Max]	[d]			approx.		DAkkS
KERN	kg	g	g	g	kg		KERN
EOB 15K5	15	5	5	± 10	3,8	A	963-128
EOB 35K10	35	10	10	± 20	3,8	А	963-128
EOB 60K20	60	20	20	± 40	3,8	Α	963-129
EOB 60K20L	60	20	20	± 40	15	В	963-129
EOB 150K50	150	50	50	± 100	3,8	А	963-129
EOB 150K50L	150	50	50	± 100	11	В	963-129
EOB 150K50XL	150	50	50	± 100	17	C	963-129
EOB 300K100A	300	100	100	± 200	4,6	A	963-129
EOB 300K100L	300	100	100	± 200	14	В	963-129
EOB 300K100XL	300	100	100	± 200	19	C	963-129









Heavy duty parcel and veterinary platform scale with extra large stainless steel weighing plate

Features

- Weighing plate stainless steel, painted steel hase
- Simple and convenient 4-key operation
- Wall mount for display device, standard
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value: The scale can be easily transported using rollers and a handle and does not require much storage space
- In Protective working cover included with delivery: Non-slip rubber mat included with delivery
- Universal external mains adapter included with delivery

Technical data

- · Large LCD display, digit height 25 mm
- ■ Weighing plate dimensions, stainless steel W×D×H, 950×500×58 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Cable length of display device approx. 2,7 m (Spiral cable)
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A04BS05
- Stand to elevate display device, height of stand approx. 1000 mm, can be reordered, KERN EOB-A02B
- Non-slip rubber mat W×D×H 950×500×5 mm, KERN EOE-A01

STANDARI















DAkks

Model	Weighing	Readability	Reproducibility	Linearity	Net weight	Option	
	capacity					DAkkS Calibr. Certif	ficate
	[Max]	[d]			approx.	DAkkS	
KERN	kg	g	g	g	kg	KERN	
EOS 150K50XL	150	50	50	± 100	17	963-129	
EOS 300K100XL	300	100	100	± 200	17	963-129	



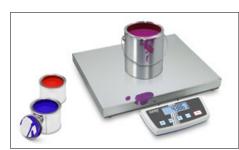
The long lasting story of success with dust and spray protected display device







Animal weighing



Recipe-weighing





Features

- High mobility: thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- · Display device flexible positioning e. g. free-standing or screwed to the wall
- 11 Display device: Plastics, protection against dust and water splashes IP65
- · Weighing plate stainless steel, painted steel base
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- · Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar

Technical data

· Large backlit LCD display, digit height 25 mm

Protective working cover included with delivery

- · Weighing plate dimensions, stainless steel $W \times D \times H$
 - A 318×308×75 mm
 - **B** 318×308×88 mm
 - 522×406×98 mm, see larger picture
 - D 522×403×83 mm
- 650×500×89 mm
- · Dimensions of display device, W×D×H 225×110×45 mm
- · Optional battery operation, 9 V block not included in scope of delivery, operating time
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN DE-A12S05
- Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN NDE-A02
- Mount to fasten the display device to the platform, for models with weighing plate size B, C, can be reordered, KERN DE-A11N
- · Wall mount for display device, KERN DE-A13
- 2 Stand to elevate display device, height of stand approx. 480 mm, can be reordered, KERN DE-A10
- Individual header data: the free software SHM-01 can be used to print header lines on the printout when using printers YKN-01 and YKB-01N
- Further details, plenty of further accessories and suitable printers see Accessories































Model	Weighing	Readability	Reproduci-	Linearity	Smallest part	Cable length	Net weight	Weighing	Option
	capacity	- rioudusiy	bility		weight	ouble longer		plate	DAkkS Calibr. Certificate
	[Max]	[d]	,		[Normal]	approx.	approx.	'	DAkkS
KERN	kg	g	g	g	g/piece	m	kg		KERN
	Dı	ual-range bala	nce switches	automatically 1	to the next larg	est weighing o	apacity [Max]	and readi	
DE 6K1D	3 6	1 2	1 2	±3 6	40	1,4	4,8	A	963-128
DE 15K2D	6 15	2 5	2 5	± 6 15	100	1,4	4,8	A	963-128
DE 35K5D	15 35	5 10	5 10	± 15 30	100	1,4	4,8	А	963-128
DE 35K5DL	15 35	5 10	5 10	± 15 30	100	1,4	16	D	963-128
DE 60K10D	30 60	10 20	10 20	± 30 60	200	1,4	4,8	А	963-129
DE 60K10DL	30 60	10 20	10 20	± 30 60	200	1,4	16	D	963-129
DE 150K20D	60 150	20 50	20 50	± 60 150	400	1,5	5	А	963-129
DE 150K20DL	60 150	20 50	20 50	± 60 150	400	1,5	16	D	963-129
DE 150K20DXL	60 150	20 50	20 50	± 60 150	400	1,4	28	Е	963-129
DE 300K50D	150 300	50 100	50 100	± 150 300	2000	1,25	16	D	963-129
DE 300K50DL	150 300	50 100	50 100	± 150 300	2000	1,05	28	Е	963-129
DE 6K0.5A	6	0,5	0,5	± 1,5	10	1,4	4,8	Α	963-128
DE 12K1A	12	1	1	± 3	20	1,4	4,8	А	963-128
DE 24K2A	24	2	2	± 6	40	1,4	4,8	Α	963-128
DE 60K5A	60	5	5	± 15	100	1,4	4,8	А	963-129
DE 120K10A	120	10	10	± 30	200	1,4	5,0	А	963-129
			Du	al-range balan	ce with high re	solution reada	bility		
DE 15K0.2D	6 15	0,2 0,5	0,2 0,5	± 0,8 2	4	1	4	В	963-128
DE 35K0.5D	15 35	0,5 1	0,5 1	± 2 4	10	1	7	В	963-128
DE 60K1D	30 60	1 2	1 2	±4 8	20	1,47	7	В	963-129
DE 60K1DL	30 60	1 2	1 2	±4 8	20	1,4	15	C	963-129
DE 150K2D	60 150	2 5	2 5	± 8 20	40	1,6	7	В	963-129
DE 150K2DL	60 150	2 5	2 5	± 8 20	40	1,4	15	C	963-129
DE 300K5DL	150 300	5 10	5 10	± 20 40	100	1,4	15	C	963-129



Robust and high-resolution platform scale with practical Flip/Flop display device for greatest ease of use



Weighing instead of counting!

Because the counting function is so easy to use, you can rapidly record large numbers of small parts – which saves time and money



Practical Flip/Flop display device: flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet.

Conversion of the display device, Factory Option for an additional cost, delivery time + 2 working days, KERN KIB-M01, see Accessories on the right, please indicate when placing your order







Features

- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning etc.)
- II Platform: weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65. Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- · Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- · Benchtop stand incl. wall mount for display device as standard
- · Protective working cover included with delivery

 Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol.

Technical data

- · Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions W×D×H
- A 300×300×110 mm
- 500×400×120 mm, see larger picture
- © 600×500×150 mm
- **1** 950×500×60 mm
- · Dimensions of display device W×D×H 268×115×80 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN EOC-A01S05
- · Internal rechargable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01
- 2 Stand to elevate display device, height of stand approx. 330 mm, KERN EOC-A05
- B Mount to fasten the display device to the platform, KERN EOC-A03
- Benchtop stand incl. wall mount for display device, KERN EOC-A04
- · Conversion of the display device, to move the cable outlet to the front of the display device, ideal e.g. for subsequent wall installation of the display device (standard configuration ex works: rear outlet), Factory Option, delivery time + 2 working days, KERN KIB-M01

STANDARD

































			1			-	
Model	Weighing	Readability	Smallest part	Cable length	Net weight	Weighing plate	Option
	capacity	-	weight				DAkkS Calibr. Certificate
	[Max]	[d]	[Normal]	approx.	approx.		DAkkS
KERN	kg	g	g/piece	m	kg		KERN
EOC 6K-3	3 6	1 2	2,5	3	6	А	963-128
EOC 10K-3	6 12	2 5	5	3	7	А	963-128
EOC 30K-3	15 35	5 10	10	3	6	А	963-128
EOC 30K-3L	15 35	5 10	10	3	9	В	963-128
EOC 60K-2	30 60	10 20	20	3	6	А	963-129
EOC 60K-2L	30 60	10 20	20	3	9	В	963-129
EOC 100K-2	60 150	20 50	50	3	6	Α	963-129
EOC 100K-2L	60 150	20 50	50	3	9	В	963-129
EOC 100K-2XL	60 150	20 50	50	3	19	С	963-129
EOC 100K-2XXL	60 150	20 50	100	0,7 - 2,7	26	D	963-129
EOC 300K-2	150 300	50 100	100	3	9	В	963-129
EOC 300K-2L	150 300	50 100	100	3	19	C	963-129
EOC 6K-4A	6	0,5	2,5	3	6	Α	963-128
EOC 10K-3A	12	1	5	3	7	Α	963-128
EOC 20K-3A	24	2	10	3	6	Α	963-128
EOC 60K-3A	60	5	20	3	6	Α	963-129
EOC 100K-2A	120	10	50	3	9	В	963-129
	Dual-rar	nge balance switch	nes automatically	to the next larges	t weighing capaci	ity [Max] and readi	
EOC 10K-4	6 15	0,2 0,5	5	3	7	Α	963-128
EOC 30K-4S	15 35	0,5 1	10	3	9	Α	963-128
EOC 30K-4	15 35	0,5 1	10	3	9	В	963-128
EOC 60K-3	30 60	1 2	20	3	6	Α	963-129
EOC 60K-3L	30 60	1 2	20	3	9	В	963-129
EOC 100K-3	60 150	2 5	50	3	7	Α	963-129
EOC 100K-3L	60 150	2 5	50	3	9	В	963-129
EOC 300K-3	150 300	5 10	100	3	9	В	963-129



Allround platform scale with a wide range of communication options and EC type approval [M] – now also available as high-resolution version with fine display



 Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date.
 Please order this at the same time as you purchase your scale, see accessories



Practical Flip/Flop display device: flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet.

Conversion of the display device, Factory Option for an additional cost, delivery time + 2 working days, KERN KIB-M01, see Accessories on the right, please indicate when placing your order

- · Industry 4.0: A wide range of (optional) data interfaces allows that it is easy to transfer weighing data to tablets, laptops, PCs, networks, Smartphones, printers, etc.
- High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning etc.)
- · Platform: weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- · Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol.

Technical data

- · Large LCD display, digit height 25 mm
- Weighing plate dimensions W×D×H
- A 300×240×110 mm
- B 300×300×110 mm
- **■** 400×300×110 mm
- 500×400×120 mm, see larger picture
- **■** 650×500×150 mm
- 800×600×200 mm
- · Dimensions of display device W×D×H 268×115×80 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN EOC-A01S05
- · Stand to elevate display device, height of stand approx. 330 mm, KERN EOC-A05
- · Mount to fasten the display device to the platform, can be retrofitted, KERN EOC-A03 Benchtop stand incl. wall mount for display device, KERN EOC-A04
- · Internal rechargeable battery pack, operating time up to 26 h with backlight, charging time approx. 3 h, KERN KFB-A01
- · USB data interface, for transferring weighing to the PC, printer etc., KERN KIB-A03
- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not possible in combination with verification, KERN KIB-A04
- · WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, continuous data transfer, must be ordered at purchase, KERN KIB-A10

- · Ethernet data interface, must be ordered at purchase, KERN KIB-A02
- · Alibi memory, including USB interface for exporting weighing results to external data storage media, such as, for example, USB sticks, hard drives, etc., KERN KIB-A01
- · Signal lamp, including interface, for visual support of weighing with tolerance range, must be ordered at purchase, KERN KIB-A06
- · Verification plug, please order this at the same time as you purchase your scale, KERN KIB-A12
- Conversion of the display device, Factory Option, delivery time + 2 working days, KERN KIB-M01
- Note: In addition to the RS 232 data interface integrated as standard, only one further data interface can be fitted and operated

STANDARD OPTION FACTORY DAkks

Model	Weighing	Readability	Verification	Minimal load	Weighing plate				Option	
	capacity		value				Verificat	ion	DAkkS Calibr. Certi	ficate
	[Max]	[d]	[e]	[Min]			MIII		DAkkS	
KERN	kg	g	g	g			KERN		KERN	
	Dual-ra	nge balance swit	ches automatica	lly to the next lar	and readibility	[d]				
IOC 6K-4	3 6	0,1 0,2	-	-	В				963-128	
IOC 10K-4	6 15	0,2 0,5	-	_	Α				963-128	
IOC 10K-4L	6 15	0,2 0,5	-	-	C				963-128	
IOC 30K-4	15 30	0,5 1	_	-	C				963-128	
IOC 60K-3	30 60	1 2	_	_	C				963-129	
IOC 60K-3L	30 60	1 2	-	_	D				963-129	
IOC 100K-3	60 150	2 5	-	-	D				963-129	
IOC 100K-3L	60 150	2 5	-	_	E				963-129	
IOC 300K-3	150 300	5 10	-	-	Е				963-129	
IOC 600K-2	300 600	10 20	-	_	F				963-130	
IOC 6K-3M	3 6	1 2	1 2	20 40	В		965-228		963-128	
IOC 10K-3M	6 15	2 5	2 5	40 100	Α		965-228		963-128	
IOC 10K-3LM	6 15	2 5	2 5	40 100	C		965-228		963-128	
IOC 30K-3M	15 30	5 10	5 10	100 200	C		965-228		963-128	
IOC 60K-2M	30 60	10 20	10 20	200 400	C		965-229		963-129	
IOC 60K-2LM	30 60	10 20	10 20	200 400	D		965-229		963-129	
IOC 100K-2M	60 150	20 50	20 50	400 1000	D		965-229		963-129	
IOC 100K-2LM	60 150	20 50	20 50	400 1000	E		965-229		963-129	
IOC 300K-2M	150 300	50 100	50 100	1000 2000	Е		965-229		963-129	
IOC 600K-1M	300 600	100 200	100 200	2000 4000	F		965-230		963-130	





High-resolution industrial scale in heavy version with EC type approval [M], now also up to [Max] 600 kg

Features

- · Tough industry standard suitable for use in harsh industrial applications
- 11 Platform: weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65
- · Benchtop stand incl. wall mount for display device as standard
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 52 mm
- · Weighing plate dimensions, stainless steel $W \times D \times H$
 - A 230×230×110 mm, B 300×240×110 mm **■** 650×500×142 mm, **■** 800×600×200 mm
- Dimensions of display device W×D×H 230×230×360 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C





Accessories

- · Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05
- Stand to elevate display device, for models with weighing plate size
- A-E: Height of stand approx. 330 mm, KERN IFB-A01
- D-E: 2 Height of stand approx. 600 mm, KERN IFB-A02
- A-E: Height of stand approx. 800 mm, Stand to elevate display device Column KERN BFS-A07
- Internal rechargeable battery pack, operating time up to 35 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KFB-A03
- · Analogue module, must be ordered at purchase, not possible in combination with signal lamp 0-10 V: KERN KFB-A04 4-20 mA: KERN KFB-A05
- Signal lamp for visual support of weighing with tolerance range, only in combination with, KERN CFS-A03
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04

STANDARD







































Model	Weighing	Readability	Verification	Minimal load	Net weight	Weighing				Option	
	capacity		value			plate		Verifica	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]	approx.			MIII		DAkkS	
KERN	kg	g	g	g	kg			KERN		KERN	
IFB 3K-4	3	0,1	-	-	4,6	А		-	-	963-127	
IFB 6K-4S	6	0,2	-	-	4,6	А		-	-	963-128	
IFB 6K-4	6	0,2	-	-	5	В		-	-	963-128	
IFB 10K-4	15	0,5	=	-	5	В		-	-	963-128	
IFB 10K-4L	15	0,5	-	-	8	С		-		963-128	
IFB 30K-3	30	1	-	-	8	C		-		963-128	
IFB 60K-3	60	2	-	-	8	С		-		963-129	
IFB 60K-3L	60	2	-	-	11	D		-		963-129	
IFB 100K-3	150	5	-	-	11	D		-		963-129	
IFB 100K-3L	150	5	-	-	20	E		-		963-129	
IFB 300K-2	300	10	-	-	20	E		-		963-129	
IFB 600K-2	600	20	-	-	44	F		-		963-130	
	Dual	-range balance	e switches aut	omatically to t	he next larges	t weighing ca	pacity [Max] a	nd readibility	y [d]		
IFB 6K-3SM	3 6	1 2	1 2	20 40	4,6	А		965-228		963-128	
IFB 6K1DM	3 6	1 2	1 2	20 40	5	В		965-228		963-128	
IFB 15K2DM	6 15	2 5	2 5	40 100	5	В		965-228		963-128	
IFB 15K2DLM	6 15	2 5	2 5	40 100	8	C		965-228		963-128	
IFB 30K5DM	15 30	5 10	5 10	100 200	8	C		965-228		963-128	
IFB 60K10DM	30 60	10 20	10 20	200 400	8	C		965-229		963-129	
IFB 60K10DLM	30 60	10 20	10 20	200 400	11	D		965-229		963-129	
IFB 150K20DM	60 150	20 50	20 50	400 1000	11	D		965-229		963-129	
IFB 150K20DLM	60 150	20 50	20 50	400 1000	20	E		965-229		963-129	
IFB 300K50DM	150 300	50 100	50 100	1000 2000	20	E		965-229		963-129	
IFB 600K-1M	300 600	100 200	100 200	2000 4000	44	F		965-230		963-130	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.













Precision industrial scale with laboratory accuracy

Features

STANDARD

- · High-capacity precision balance, ideal for high volume or heavy samples to be weighed with a high degree of accuracy
- · User guidance step by step on display by Yes/No dialogue
- · Numerical subtraction of tare weight for known container weight. Useful for checking fill-levels
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- · Freely programmable weighing unit, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 18 mm
- · Weighing plate dimensions, stainless steel W×D×H
 - A 228×228×95 mm
 - **B** 308×318×75 mm, see larger picture
- © 400×300×90 mm
- · Dimensions of display device W×D×H 225×115×60 mm
- Cable length of display device approx. A, B 2 m, C 3 m
- Permissible ambient temperature 10 °C/40 °C

Accessories

· Protective working cover over the display device, scope of delivery: 5 items, KERN DE-A12S05



- II Stand to elevate display device, height of stand approx. 480 mm for models with weighing plate size **B**, KERN DE-A10
- 2 Stand to elevate display device, height of stand approx. 600 mm for models with weighing plate size , KERN IXS-A04
- · Mount to fasten the display device to the platform, for models with weighing plate size B, C, can be reordered, KERN DE-A11N
- · Wall mount for display device, KERN DS-A02
- 3 Set for underfloor weighing, consists of platform, bow, hook, only for models with weighing plate B, KERN DS-A01
- · Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01
- Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N
- · Further details, plenty of further accessories and suitable printers see Accessories

Model	Weighing ca-	Readability	Smallest part	Net weight	Resolution	Weighing plate	Option
	pacity		weight				DAkkS Calibr. Certificate
	[Max]	[d]	[Normal]	approx.			DAkkS
KERN	kg	g	g/piece	kg	Points		KERN
DS 3K0.01S	3	0,01	0,1	4,2	300.000	Α	963-127
DS 5K0.05S	5	0,05	0,5	4,2	100.000	Α	963-127
DS 8K0.05	8	0,05	0,5	8	160.000	В	963-128
DS 10K0.1S	10	0,1	1	4,2	100.000	Α	963-128
DS 16K0.1	16	0,1	1	9	160.000	В	963-128
DS 20K0.1	20	0,1	1	8	200.000	В	963-128
DS 30K0.1	30	0,1	1	8	300.000	В	963-128
DS 30K0.1L	30	0,1	1	18	300.000	C	963-128
DS 36K0.2	36	0,2	2	8	180.000	В	963-128
DS 36K0.2L	36	0,2	2	18	180.000	C	963-128
DS 60K0.2	60	0,2	2	18	300.000	C	963-129
DS 65K0.5	65	0,5	5	18	130.000	C	963-129
DS 100K0.5	100	0,5	5	18	200.000	C	963-129
DS 150K1	150	1	10	18	150.000	C	963-129









Platform scale with dust and spray protection IP65 and EC type approval [M]

Features

- · Platform scale protected to IP65 with stainless steel display device, for industrial applications, hygienic and easy to clean
- II Platform: weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65
- Display device: Stainless steel, protection against dust and water splashes IP65, flexible positioning, e.g. free-standing or mounted to the wall, for details see KERN KFE-TM
- Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- · Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value

· PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels, (only for non-verified models)

Technical data

- · Large backlit LCD display, digit height 22 mm
- Weighing plate dimensions, stainless steel $W \times D \times H$
 - A 300×240×110 mm, see larger picture
 - B 400×300×130 mm
- 500×400×140 mm
- **■** 650×500×140 mm
- · Dimensions of display device W×D×H 195×120×70 mm
- · Cable length of display device approx. 3 m
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

· Stand to elevate display device, for models with weighing plate size

A-D: Height of stand approx. 200 mm, Type 2, KERN SFE-A01

B-D: Height of stand approx. 400 mm, Type ☑, KERN SFE-A02

C-D: Height of stand approx. 600 mm, Type 3, KERN SFE-A03

· Tare pan made from stainless steel. Ideal for weighing loose small parts as well as fruit, vegetables, etc., KERN RFS-A02

STANDARD





























PTION	FACTORY
AkkS	M

Model	Weighing	Readability	Verification	Minimal load	Net weight	Weighing		Option			
	capacity		value			plate	Verificati	ion	DAkkS Calibr. Certifica		
	[Max]	[d]	[e]	[Min]	approx.		MIII		DAkkS		
KERN	kg	g	g	g	kg		KERN		KERN		
SFE 6K-3NM	6	2	2	40	6	А	965-228		963-128		
SFE 10K-3NM	15	5	5	100	6	А	965-228		963-128		
SFE 10K-3LNM	15	5	5	100	8	В	965-228		963-128		
SFE 30K-2NM	30	10	10	200	6	А	965-228		963-128		
SFE 60K-2NM	60	20	20	400	8	В	965-229		963-129		
SFE 60K-2LNM	60	20	20	400	12	C	965-229		963-129		
SFE 100K-2NM	150	50	50	1000	8	В	965-229		963-129		
SFE 100K-2LNM	150	50	50	1000	12	C	965-229		963-129		
SFE 100K-2XLNM	150	50	50	1000	20	D	965-229		963-129		
SFE 300K-1LNM	300	100	100	2000	20	D	965-229		963-129		

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.



10

Platform scale with stainless steel display device with IP68 rating, XL-display und EC type approval [M] – now also as high resolution version with high-resolution display



Piece-counting function



Durable stainless steel weighing plate



Stainless steel display device with IP68 protection, hygienic and easy to clean







Features

- Tough industry standard suitable for use in harsh industrial applications
- In Platform: weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65, Substruction in wing design, extremely resistant to bending
- Superior display size: digit height 55 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Display device: Stainless steel, protection against dust and water splashes IP68, integrated power supply
- ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale
- Thanks to interfaces such as RS-232, RS-485 and Bluetooth (optional) the scale can easily be connected to existing networks and facilitates the data exchange between the scale and printer

Technical data

- · Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, stainless steel $\ensuremath{\mathsf{W}}\xspace{\mathsf{X}}\xspace{\mathsf{D}}\xspace{\mathsf{X}}\xspace{\mathsf{H}}$
 - M 300×240×86 mm
 - **B** 400×300×89 mm, see larger picture
- © 500×400×123 mm
- **1** 650×500×133,5 mm
- Dimensions of display device W×D×H 232×150×80 mm
- · Cable length of display device approx. 2,5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Stand to elevate display device
 Height of stand approx. 50 mm,
 KERN IXS-A01
- A-D Height of stand approx. 200 mm, KERN IXS-A02
- **B-D** Height of stand approx. 400 mm, KERN IXS-A03
- **ID-ID** Height of stand approx. 600 mm, KERN IXS-A04

- Internal rechargeable battery pack, operating time up to 80 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN GAB-A04
- Data interface RS-232, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KXS-A04
- Data interface RS-485, must be ordered at purchase, KERN KXS-A01
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KXS-A02
- Foot switch, must be ordered at purchase, KERN KXS-A03
- Roller conveyor attachment, with smooth-running, hot-dip galvanised steel rollers with ball bearings, robust aluminium profile frame, for platform size
 - **B** KERN YRO-01
- **©** KERN YRO-02
- **III** KERN YRO-03
- Further details, plenty of further accessories and suitable printers see Accessories

		1 2		U				
Model	Weighing	Readability	Verification	Minimal load	Net weight	Weighing		Option
	range		value			plate	Verifica	tion DAkkS Calibr. Certifica
	[Max]	[d]	[e]	[Min]	approx.		MIII	DAkkS
KERN	kg	g	g	g	kg		KERN	KERN
IXS 6K-4	6	0,2	-	-	6	А	-	963-128
IXS 10K-4	15	0,5	-	-	6	А	-	963-128
IXS 10K-4L	15	0,5	-	-	11	В	-	963-128
IXS 30K-3	30	1	-	-	11	В	-	963-128
IXS 30K-3L	30	1	-	-	22	С	-	963-128
IXS 60K-3	60	2	-	-	11	В	-	963-129
IXS 60K-3L	60	2	-	-	22	С	-	963-129
IXS 100K-3	150	5	-	-	22	C	-	963-129
IXS 100K-3L	150	5	-	-	36	D	-	963-129
IXS 300K-2	300	10	-	-	36	D	-	963-129
	D	ual-range baland	ce switches auto	matically to the	next largest w	eighing cap	pacity [Max] and readibility	y [d]
IXS 6K-3M	3 6	1 2	1 2	20 40	6	А	965-228	963-128
IXS 10K-3M	6 15	2 5	2 5	40 100	6	Α	965-228	963-128
IXS 10K-3LM	6 15	2 5	2 5	40 100	11	В	965-228	963-128
IXS 30K-2M	15 30	5 10	5 10	100 200	11	В	965-228	963-128
IXS 30K-2LM	15 30	5 10	5 10	100 200	22	C	965-228	963-128
IXS 60K-2M	30 60	10 20	10 20	200 400	11	В	965-229	963-129
IXS 60K-2LM	30 60	10 20	10 20	200 400	22	C	965-229	963-129
IXS 100K-2M	60 150	20 50	20 50	400 1000	22	C	965-229	963-129
IXS 100K-2LM	60 150	20 50	20 50	400 1000	36	D	965-229	963-129
IXS 300K-2M	150 300	50 100	50 100	1000 2000	36	D	965-229	963-129

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

^{*} Either RS-232 or RS-485 can be installed and used

Floor scales/Pallet scales/Drive-through scales

From Goods input through to production and on to dispatch – our modern, powerful floor scales can be used everywhere and intuitively. Many clever functions will help you to carry out processes effectively and economically. While meeting high requirements it will save ressources.

In our floor scales product category, we offer our customers a carefully coordinated product range in the weighing range from 300 to 6,000 kg. Choose between affordable entry level models, practical built-in solutions or Premium products made from stainless steel and verified. All floor scales really stand out because of their durable industrial quality as well as reliable protection against dust and water splashes.

Industrial scales for heavy loads

When weighing large containers and heavy goods, scales must overcome different challenges. As well as correspondingly large weighing ranges, a high level of stability and sturdiness is necessary, in order to withstand the maximum loads acting on the weighing plate. Our floor scales are perfectly suited for this task, for example through generously sized struts and material thicknesses, mobile stored adjustable feet for the protection of the load cells, IP67 protection against dust and water splashes or a convenient disconnect device bet ween the display device and platform. The latter means that you can install a verified scale in a packing and dispatch bench or a pit frame for barrier-free access at a later date. Large LCD displays make it easier to read the display even if the angle of view is not ideal. We also have pallet scales, weighing beams and drive-through scales available for versatile use.

Our recommendation: High-resolution KERN BIC floor scale with 2 x 3,000 [d] at the best price-to-performance ratio.

Easy integration through digital interfaces

Thanks to interfaces such as RS-232, USB, Bluetooth, WLAN, Ethernet the scale can easily be connected to existing networks. Data exchange between scale and PC or printer is easy and reliable. The standardised KCP interface (Kern Communication Protocol) takes over the searching und remote control of the scale using external control devices or computers. KCP enables you to recall and control the relevant parameters and device functions and is also compatible with the MT-SICS protocol in most cases.

Our recommendation: High-resolution dual-range KERN

UID pallet scale with EC type approval [M] and various data interfaces

The KERN calibration and verification service

In order to fulfil quality requirements in accordance with DIN EN ISO 9000ff and other standards, we can offer our customers DAkkS calibration. Calibration ensures correct, usable weighing results and makes the floor scale into a reliable measuring and testing instrument. When calibrating, deviations in the display will be identified and documented. The main points to remember are: DAkkS calibration is always sensible, when checking equipment is to be used in a QM process. While calibration is not legally regulated, verification is mandatory in different applications for example:

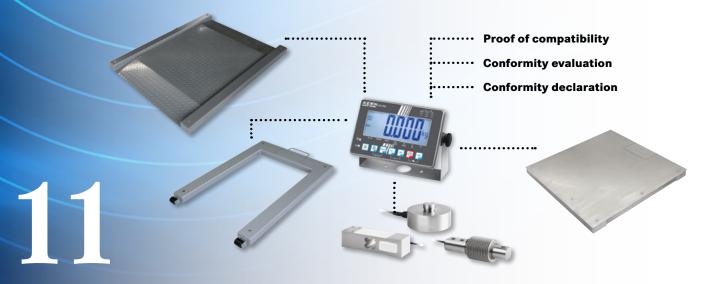
- In commercial trade, if the price of goods are determined by weighing results.
- In the production of pre-packaged goods
- In the pharmaceutical industry
- · For official purposes.

Our recommendation: BID floor scale with EC type approval [M] and the best price-to-performance ratio – now also as a high-resolution dual-range balance

Individual solutions for maximum efficiency

The weighing ranges of bench counting scales are often not sufficient to count large quantities, units or items on pallets. This is where high-performance counting systems come into their own, as these combine a high-precision reference scale with a high-capacity bulk scale, such as for example a floor scale, pallet scale or drive-through scale.

If you have special requirements, you can also configure your ideal scale easily and quickly so that it meets your needs. We will put your weighing combination together for you, using the components you have selected and including verification. Please contact your personal customer advisor for further information!



11

Quick-Finder Floor scales/Pallet scales/Drive-through scales

Readability	Weighing capacity	Weighing plate W×D×H	Model	Page	DAYS	M	RS 232	USB	BT	WLAN	LAN	KCP PROTOCOL	PCS	-√+ ③ Ͽͽ TOL	ACCU
[d] g	[Max] kg	mm	KERN				For an	explan	ation o	on the	pictos,	see fr	ont flap)	
50 100	300 600	1000×1000×108	BID 600K-1DS	106	2			0	0	0	0				
50 100	300 600	1200×1500×108	BID 600K-1D	106	2			0	0	0	0				
100	300	1000×1000×80	NIB 300K-1	115	2										
100 200	300 600	1000×1000×108	BIC 600K-1S	104	2										
100 200	300 600	1200×1500×108	BIC 600K-1	104	2										
100 200	300 600	1000×1000×108	BID 600K-1DSM	105	2	0	•	0	0	0	0	•	•	•	0
100 200	300 600	1200×1500×108	BID 600K-1DM	105	2	0		0	0	0	0			•	0
100 200	300 600	1195×840×110	UID 600K-1DM	112	2	0	•	0	0	0	0	•	•	•	0
100 200	600 1500	1000×1000×108	BID 1T-4DS	106	2			0	0	0	0				
100 200	600 1500	1200×1500×108	BID 1T-4D	106	2			0	0	0	0				
200	600	1000×1000×108	BID 600K-1SM	105	2	0	•	0	0	0	0	•	•	•	0
200	600	1200×1500×108	BID 600K-1M	105	2	0	•	0	0	0	0	•	•	•	0
200	600	1000×1000×90	BFN 600K-1SM	109	2	0	0					•	•	•	
200	600	800×120×100	UFA 600K-1S	110	2	_	•		0			•	•	•	0
200	600	1000×1000×85	BFB 600K-1SNM	107	2		•		0			•	•	•	
200	600	1500×1250×85	BFB 600K-1NM	107	2	0	•		0			•	•	_	0
200	600	1195×840×110 1195×840×110	UIB 600K-1 UID 600K-1M	111 112	2	0	•	0	0	0	0	•	•	•	
200	600	1195×840×110 1190×840×90	UFB 600K200M	112	2	0	•		0	- 0	0	•	•	•	0
200	600	1600×1200×80	NFB 600K200M	116	2	0	•		0			•	•	•	-
200	600	1800×1400×80	NFB 600K200LM	116	2	-	•		-0			•	•	•	-
200	600	1600×1200×80	NFN 600K200LM	117	2	0	0					•	•		
200	600	1360×840×90	UFN 600K200IPM	117	2	-									
200	600	1000×1000×80	NIB 600K-2	115	2										
200 500	600 1500	1000×1000×108	BIC 1T-4S	104	2										
200 500	600 1500	1200×1500×108	BIC 1T-4	104	2										
200 500	600 1500	1000×1000×108	BID 1T-4DSM	105	2	0	•	0	0	0	0	•	•	•	0
200 500	600 1500	1200×1500×108	BID 1T-4DM	105	2	0		0	0	0	0	•	•	•	0
200 500	600 1500	1190×840×110	UID 1500K-1DM	112	2	0	•	0	0	0	0	•	•	•	0
200 500	1500 3000	1500×1500×108	BID 3T-3DL	106	2			0	0	0	0				
200 500	1500 3000	1200×1500×108	BID 3T-3D	106	2			0	0	0	0				
500	1500	1000×1000×108	BID 1T-4SM	105	2	0	•	0	0	0	0	•	•	•	0
500	1500	1200×1000×108	BID 1T-4EM	105	2	0		0	0	0	0	•	•	•	0
500	1500	1200×1500×108	BID 1T-4M	105	2	0		0	0	0	0		•	•	0
500	1500	1500×1500×108	BID 1T-4LM	105	2	0	•	0	0	0	0	•	•	•	0
500	1500	1495×1245×95	BFN 1.5T0.5M	109	2	0	0					•	•	•	•
500	1500	1000×1000×90	BFN 1T-4SM	109	2	0	0							•	•
500	1500	1200×120×100	UFA 1.5T0.5	110	2				0				•	•	0
500	1500	1000×1000×100	BFB 1T-4SNM	107	2	0	•		0			•	•	•	0
500	1500	1500×1250×90	BFB 1T-4NM	107	2	0	•		0			•	•	•	0
500	1500	1195×840×110	UIB 1.5T-4	111	2										
500	1500	1190×840×110	UID 1500K-1M	112	2	0	•	0	0	0	0	•	•	•	
500	1500	1190×840×90	UFB 1.5T0.5M	113	2		•		0			•	•	•	
500	1500	1600×1200×80	NFB 1.5T0.5M	116	2	0	•		0			•	•	•	0
500 500	1500 1500	1800×1400×80 1600×1200×80	NFB 1.5T0.5LM NFN 1.5T-4M	116 117	2	0	0					•	•	•	
500	1500	1360×840×90	UFN 1.51-4M UFN 1.5T0.5IPM	117	2	0	0					_		•	
500 1000	1500 3000	1200×1500×108	BIC 3T-3	104	2								-		
500 1000	1500 3000	1500×1500×108	BIC 3T-3L	104	2									•	
500 1000	1500 3000	1200×1500×108	BID 3T-3DM	104	2	0	•	0	0	0	0	•	•	•	0
500 1000	1500 3000	1500×1500×108	BID 3T-3DLM	105	2	-	•	0	0	0	0	-	•	-	-
500 1000	1500 3000	1190×840×110	UID 3000K-0DM	112	2	-	•	0	-0	-0	-0	•	•		-
1000	3000	1200×1500×108	BID 3T-3M	105	2	0	•	0	0	0	0	•	•	•	-
1000	3000	1500×1500×108	BID 3T-3LM	105	2	0	•	0	0	0	0	•	•	•	0
1000	3000	1495×1245×95	BFN 3T-3M	109	2	0	0					•	•	•	
1000	3000	1200×120×100	UFA 3T1	110	2	-			0			•	•	•	0
1000	3000	2000×160×100	UFA 3T-3L	110	2				0			•	•	•	0
1000	3000	1500×1250×85	BFB 3T-3NM	107	2	0			0				•	•	0
1000	3000	1500×1500×80	BFB 3T1LM	107	2	0			0			•	•	•	0
1000	3000	1195×840×110	UIB 3T-3	111	2										
1000	3000	1195×840×110	UID 3000K-0M	112	2	0		0	0	0	0	•	•	•	0
2000	6000	1200×160×100	UFA 6T-3	110	2		•		0			•	•	•	0
2000	6000	2000×160×100	UFA 6T-3L	110	2		•		0			•	•	•	0
2000	6000	1500×1500×130	BFB 6T-3M	107	2	0			0				•	•	0
Nowe 202	_												tandar		

News 2022

 \bullet = standard \circ = option







High-resolution floor scale with 2×3000 [d] and the best price-to performance ratio

Features

- 11 Weighing bridge: out of anti-slip corrugated steel, 4 load cells, alloy steel, silicone-coated, **IP67**
- · Welded platform with screw holes to lift the scale for easy cleaning
- Easy levelling of the weighing bridge as well as access to the junction box from above
- Simple and convenient 4-key operation
- 11 Wall mount for display device, standard
 - · A clever plug-in connector means that you can easily separate the display device and the platform, e.g. for installing the balance in a packing and dispatch bench, pit frame etc. at a later date
 - Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions W×D×H
- A 1000×1000×108 mm
- B 1200×1500×108 mm
- 1500×1500×108 mm
- · Dimensions of display device W×D×H 235×114×51 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN EOB-A04BS05
- · Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07
- Ascending ramp, steel, powder coated, for models with weighing plate size A 1000×1000×108 mm,
 - KERN BIC-A01
- B 1200×1000×108 mm,
- KERN BIC-A02
- 1500×1000×108 mm,
- KERN BIC-A03
- Stable pit frame, steel, for models with weighing plate size
 - A 1088×1088×110 mm,
 - KERN BIC-A04
 - B 1288×1588×110 mm,
 - KERN BIC-A05
 - 1588×1588×110 mm,
 - KERN BIC-A06

Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD



















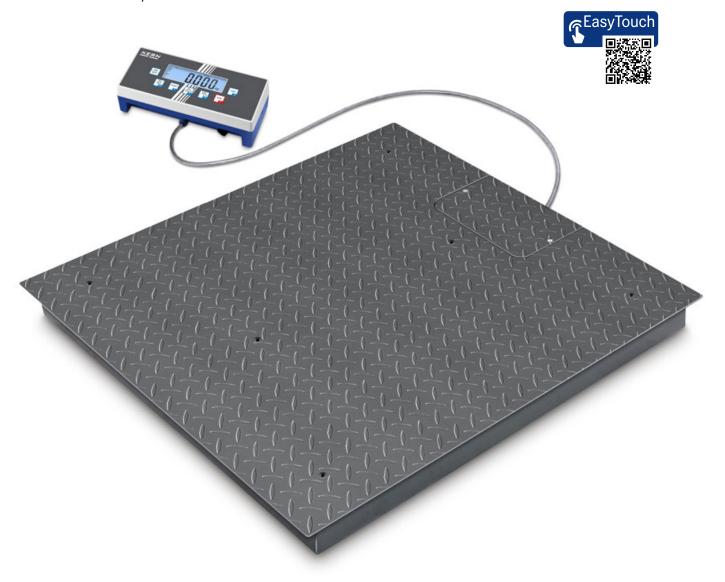






OPTION

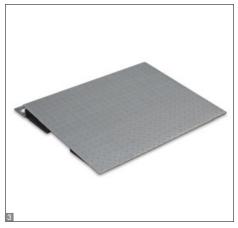
	_										
Model	Weighing capacity	Readability	Net weight	Weighing plate		Option					
						DAkkS Calibr. Ce	rtificate				
	[Max]	[d]	approx.			DAkkS					
KERN	kg	kg	kg			KERN					
	Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [d]										
BIC 600K-1S	300 600	0,1 0,2	70	А		963-130					
BIC 600K-1	300 600	0,1 0,2	150	В		963-130					
BIC 1T-4S	600 1500	0,2 0,5	150	А		963-130					
BIC 1T-4	600 1500	0,2 0,5	70	В		963-130					
BIC 3T-3	1500 3000	0,5 1	150	В		963-132					
BIC 3T-3L	1500 3000	0.5 1	150	C		963-132					



Floor scale with EC type approval [M] and the best price-to-performance ratio – now also as high-resolution dual-range balance



Did you know?
Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation.
KERN – always one step ahead



Access ramp incl. pair of base plates to facilitate access of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse etc.



■ Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date.

Features

- · Dual-range floor scales, ideal, high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that two scales can be replaced with one - which saves space and money!
- · BID 1T-4EM: Compact special size, especially for weighing europallets
- Meighing bridge: out of anti-slip corrugated steel, 4 load cells, alloy steel, silicone-coated, IP67
- Easy levelling of the weighing bridge as well as access to the junction box from above
- 2 Display device: for details see KERN KIB-TM
- · Totalising of weights and piece counts
- Thanks to interfaces such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer
- Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol.

Technical data

- · Large LCD display, digit height 25 mm
- Weighing plate dimensions W×D×H ■ 1000×1000×108 mm, ■ 1200×1000×108 mm

- · Dimensions of display device W×D×H 268×115×80 mm
- · Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN EOC-A01S05
- · Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07
- · Ascending ramp, steel, powder coated, for models with weighing plate size
 - A, B KERN BIC-A01
 - **©** KERN BIC-A02
 - **D** KERN BIC-A03
- · Stable pit frame, Steel, powder-coated, to install the weighing bridge so you can drive straight on, for models with weighing plate size
- A KERN BIC-A04
- **B** KERN BIC-A08
- **©** KERN BIC-A05
- **III** KERN BIC-A06
- · Benchtop stand incl. wall mount for display device, KERN EOC-A04
- · Internal rechargeable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01
- · USB data interface, for transferring weighing to the PC, printer etc., KERN KIB-A03
- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not possible in combination with verification, KERN KIB-A04

- · WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets or laptops, continuous data transfer, must be ordered at purchase, KERN KIB-A10
- Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KIB-A02
- Signal lamp, including interface, for visual support of weighing with tolerance range, must be ordered at purchase, KERN KIB-A06
- Alibi memory, including USB interface for exporting weighing results to external data storage media, such as, for example, USB sticks, hard drives, etc., KERN KIB-A01
- Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, KERN KIB-A12

Note:

For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD



































OPTION









FACTORY









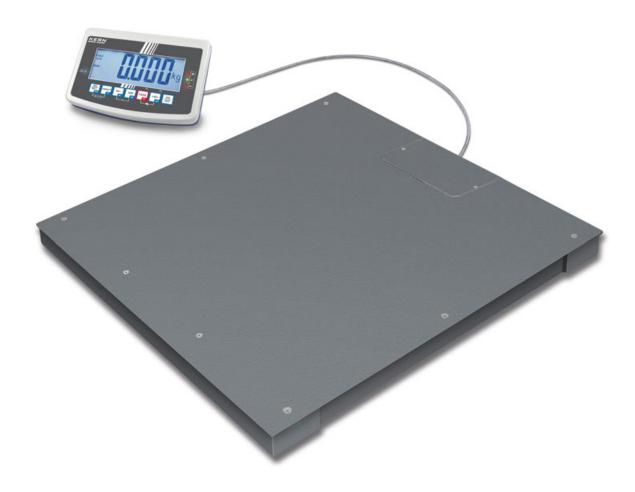


Model	Weighing	Readability	Verification	Minimal load	Net weight	Weighing			C	ption	
	capacity		value			plate		Verificat	ion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]	approx.			MIII		DAkkS	
KERN	kg	kg	kg	kg	kg			KERN		KERN	
			Dual-ı	range balance	with high resc	lution readabi	lity				
BID 600K-1DS	300 600	0,05 0,1	_	-	70	Α		-		963-130	
BID 600K-1D	300 600	0,05 0,1	_	-	150	C		-		963-130	
BID 1T-4DS	600 1500	0,1 0,2	_	-	70	Α		-		963-130	
BID 1T-4D	600 1500	0,1 0,2	_	-	150	C		-		963-130	
BID 3T-3D	1500 3000	0,2 0,5	_	-	150	C		-		963-132	
BID 3T-3DL	1500 3000	0,2 0,5	_	-	155	D		-		963-132	
BID 600K-1SM	600	0,2	0,2	4	70	Α		965-230		963-130	
BID 600K-1M	600	0,2	0,2	4	150	C		965-230		963-130	
BID 1T-4SM	1500	0,5	0,5	10	70	Α		965-230		963-130	
BID 1T-4M	1500	0,5	0,5	10	150	C		965-230		963-130	
BID 1T-4EM	1500	0,5	0,5	10	85	В		965-230		963-130	
BID 1T-4LM	1500	0,5	0,5	10	160	D		965-230		963-130	
BID 3T-3M	3000	1	1	20	150	C		965-232		963-132	
BID 3T-3LM	3000	1	1	20	160	D		965-232		963-132	
	Dual	range balance	e switches aut	omatically to t	he next larges	t weighing cap	pacity [Max] a	nd readibility	[d]		
BID 600K-1DSM	300 600	0,1 0,2	0,1 0,2	2	70	Α	•	965-230		963-130	
BID 600K-1DM	300 600	0,1 0,2	0,1 0,2	2	150	C		965-230		963-130	
BID 1T-4DSM	600 1500	0,2 0,5	0,2 0,5	5	70	Α		965-230		963-130	
BID 1T-4DM	600 1500	0,2 0,5	0,2 0,5	5	150	C		965-230		963-130	
BID 3T-3DM	1500 3000	0,5 1	0,5 1	10	150	C		965-232		963-132	
BID 3T-3DLM	1500 3000	0,5 1	0,5 1	10	160	D		965-232		963-132	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

106





Weighing bridge with screwed-on weighing plate (IP67) and XXL display device, with EC type approval [M]



Weighing plate can be unscrewed
The weighing plate can be conveniently
unscrewed for maintenance or cleaning
purposes (weighing plate size ,)



Easy levelling of the weighing bridge as well as access to the junction box from above



Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead







Features

- Weighing plate A, B screwed on from the top, so it easy to remove, hygienic and easy to clean
- Weighing bridge: steel, powder coated, weighing plate size [3], [3] corrugated steel plate, welded, 4 silicone-coated steel load cells, dust and spray protection IP67
- · Display device: for details see KERN KFB-TM
- Benchtop stand incl. wall mount for display device as standard
- · Totalising of weights and piece counts
- · Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions W×D×H
 - A 1000×1000×85 mm
 - **■** 1500×1250×85 mm
- 1500×1500×80 mm
- 1500×1500×130 mm
- · Dimensions of display device W×D×H 250×160×58 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05
- 2 Stand to elevate display device Column height approx. 800 mm, KERN BFS-A07
- · Pair of base plates to fix the weighing bridge to the floor, for models with weighing plate size A, B, C KERN BFS-A06N KERN BFS-A10
- 3 Ascending ramp, Steel, lacquered, not included, for models with weighing plate size
 - A KERN BFS-A01N
 - **B** KERN BFS-A02N
 - **©** KERN BFS-A09N
- **D** KERN BFS-A11
- 4 Stable pit frame, steel, for models with weighing plate size
- A KERN BFS-A03N
- **B** KERN BFS-A04N
- **©** KERN BFS-A08
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 10 h, must be ordered at purchase, KERN KFB-A01
- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, not possible in combination with RS 232 data interface, KERN KFB-A03

- Analogue module, must be ordered at purchase, not possible in combination with signal lamp
- 0-10 V: KERN KFB-A04 4-20 mA: KERN KFB-A05
- · Signal lamp for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03
- · Large display with superior display size, KERN YKD-A02
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03
- Further details, plenty of further accessories and suitable printers see Accessories

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs







































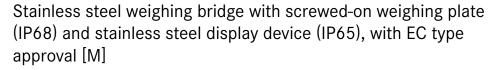




Model	Weighing	Readability	Minimal load	Net weight	Weighing plate		Option			
	capacity	= Verification value				Verificat	ion	DAkkS Calibr. Ce	rtificate	
	[Max]	[d] = [e]	[Min]	approx.		MIII		DAkkS		
KERN	kg	kg	kg	kg		KERN		KERN		
BFB 600K-1SNM	600	0,2	4	105	А	965-230		963-130		
BFB 600K-1NM	600	0,2	4	140	В	965-230		963-130		
BFB 1T-4SNM	1500	0,5	10	105	Α	965-230		963-130		
BFB 1T-4NM	1500	0,5	10	140	В	965-230		963-130		
BFB 3T-3NM	3000	1	20	140	В	965-232		963-132		
BFB 3T1LM	3000	1	20	155	C	965-232		963-132		
BFB 6T-3M	6000	2	40	230	D	965-232		963-132		

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.





Features

- · Tough industry standard suitable for use in harsh industrial applications
- Weighing plate screwed on from the top with stainless steel screws, so it's easy to remove, hygienic and easy to clean
- Meighing bridge: stainless steel, extremely resistant to bending due to material thickness, 4 welded stainless steel load cells, dust and spray protection IP68. Weighing bridge can also be delivered as component without the display device, for details see KERN KFD-V40.
- Your support in a HACCP-compliant quality system
- Easy levelling of the weighing bridge as well as access to the junction box from above
- Display device: Stainless steel, protection against dust and water splashes IP65, for industrial applications, hygienic and easy to clean, integrated power supply. The display device can also be delivered as a component without the weighing bridge, for details see KERN KFN-TM
- · Benchtop stand incl. wall mount for display device as standard

- · Totalising of weights and piece counts
- · Internal rechargeable battery pack included with delivery
- Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- · Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 5 m
- · Weighing plate dimensions W×D×H ■ 1000×1000×90 mm, ■ 1500×1250×95 mm
- Permissible ambient temperature -10 °C/40 °C

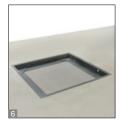
Accessories

- 3 Stand to elevate display device, height of stand approx. 800 mm, KERN YKP-02
- Pair of base plates to fix the weighing bridge to the floor, KERN BFN-A03









- Ascending ramp, stainless steel, not included, for models with weighing plate size M KERN BFN-A05
 - **B** KERN BFN-A01
- 5 Stable pit frame, Stainless Steel, for models with weighing plate size
- A KERN BFN-A06
- **B** KERN BFN-A02
- · Bluetooth data interface, must be ordered at purchase, KERN KFB-A03
- Analogue module, 0-10 V: KERN KFB-A04 4-20 mA: KERN KFB-A05
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 12 h, KERN GAB-A04
- · RS 232 data interface including interface cable 1,5 m, must be ordered at purchase, KERN KFN-A01
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03
 - Further details, plenty of further accessories and suitable printers see Accessories

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Optionally configurable with IP68 display device on request, details see chapter 13

STANDARD









































FACTORY









	Model	Weighing	Readability	Minimal load	Net weight	Weighing plate		(Option	
			= Verification value				Verifica	tion	DAkkS Calibr. Certificate	
-		[Max]	[d] = [e]	[Min]	approx.		MIII		DAkkS	
	KERN	kg	kg	kg	kg		KERN		KERN	
	BFN 600K-1SM	600	0,2	4	100	Α	965-230		963-130	
	BFN 1T-4SM	1500	0,5	10	100	Α	965-230		963-130	
	BFN 1.5T0.5M	1500	0,5	10	145	В	965-230		963-130	
	BFN 3T-3M	3000	1	20	150	В	265-232		963-132	

Not possible in combination with RS 232 data interface

Highly versatile weighing beams (IP67) for large loads to 6 t

Features

- · Flexible solution for weighing large, bulky or long items thanks to freely positionable weighing beams and a 5 m (!) long connecting cable between the beams
- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- 11 🛮 Weighing beams: steel, painted, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67, weighing beams can also be delivered as components without the display device, for details see KERN KFA-V20
 - Sturdy handles for transporting the weighing beams
 - 2 KERN UFA-L: Each weighing beam has a roller and handle for easy transport of the scale
 - Display device: for details see KERN KFB-TM
 - · Benchtop stand incl. wall mount for display device as standard

- · Totalising of weights and piece counts
- · Protective working cover included with delivery
- KERN UFA-S, new model with short weighing beams, ideal for weighing compact items or animals in transport boxes
- Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- · Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 250×160×65 mm
- · Cable length of display device approx. 5 m
- · Cable length weighing beams approx. 5 m
- Permissible ambient temperature -10 °C/40 °C









Accessories

- · Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05
- 3 Stand to elevate display device Column height approx. 800 mm, KERN BFS-A07
- Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 10 h, KERN KFB-A01
- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, not possible in combination with RS 232 data interface,

KERN KFB-A03

- Analogue module, must be ordered at purchase, not possible in combination with signal lamp
- 0-10 V: KERN KFB-A04 4-20 mA: KERN KFB-A05
- Signal lamp for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03
- Is Large display with superior display size, KERN YKD-A02
- · Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD













































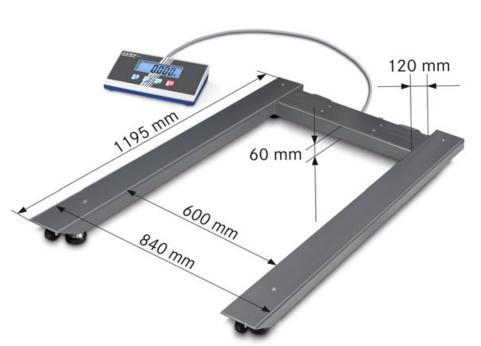
FACTORY







Model	Weighing capacity	Readability	Net weight	Dimensions	Option
				Weighing beam	DAkkS Calibr. Certificate
	[Max]	[d]	approx.	W×D×H	DAkkS
KERN	kg	kg	kg	mm	KERN
UFA 600K-1S	600	0,2	36	800×120×100	963-130
UFA 1.5T0.5	1500	0,5	38	1200×120×100	963-130
UFA 3T1	3000	1	38	1200×120×100	963-132
UFA 3T-3L	3000	1	60	2000×160×100	963-132
UFA 6T-3	6000	2	85	1200×160×100	963-132
UFA 6T-3L	6000	2	135	2000×160×100	963-132









Pallet scale with steel load support (IP67) and the best price-to-performance ratio

Features

- · High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- 11 Load support: steel, powder coated, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67
- 2 The scale can be easily transported using rollers and a handle and does not require much storage space
- · Totalising of weights and piece counts
- · Protective working cover included with delivery
- 3 Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- · Large LCD display, digit height 25 mm
- Dimensions of display device W×D×H 235×115×52 mm
- · Cable length of display device approx. 5 m
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A04BS05
- Stand to elevate display device, height of stand approx. 1000 mm, can be reordered, KERN EOB-A02B

■ Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD

















Model	Weighing capacity	Readability	Net weight	Option
				DAkkS Calibr. Certificate
	[Max]	[d]	approx.	DAkkS
KERN	kg	kg	kg	KERN
UIB 600K-1	600	0,2	55	963-130
UIB 1.5T-4	1500	0,5	55	963-130
UIB 3T-3	3000	1	55	963-132

High-resolution dual-range pallet scale with EC type approval [M] and a wide range of interfaces

Features

- · Dual-range pallet scale! Ideal, when high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that two scales can be replaced with one - which saves space and money!
- · High mobility thanks to battery operation for display device and platform
- In Load support: steel, powder coated, 4 load cells, alloy steel, silicone-coated, IP67
- · The scale can be easily transported using rollers and a handle and does not require much storage space
- · Totalising of weights and piece counts
- · Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and

manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol.

- · Due to interfaces such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer
- · Protective working cover included with delivery

Technical data

- · Large LCD display, digit height 25 mm
- · Dimensions of display device W×D×H 268×115×80 mm
- · Cable length of display device approx. 5 m
- Net weight 44 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN EOC-A01S05
- · Stand to elevate display device, height of stand approx. 800 mm, KERN BFS-A07
- · Internal rechargable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01
- USB data interface, must be ordered at purchase, KERN KIB-A03
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, must be ordered at purchase, KERN KIB-A04
- · WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets or laptops, continuous data transfer, must be ordered at purchase, KERN KIB-A10
- Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KIB-A02
- · Signal lamp, including interface, for visual support of weighing with tolerance range, must be ordered at purchase, KERN KIB-A06
- Alibi memory, including USB interface for exporting weighing results to external data storage media, such as, for example, USB sticks, hard drives, etc., KERN KIB-A01
- Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, KERN KIB-A12

Note: In addition to the RS-232 interface, which is integrated as standard, only one other interface can be installed and operated

Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD











































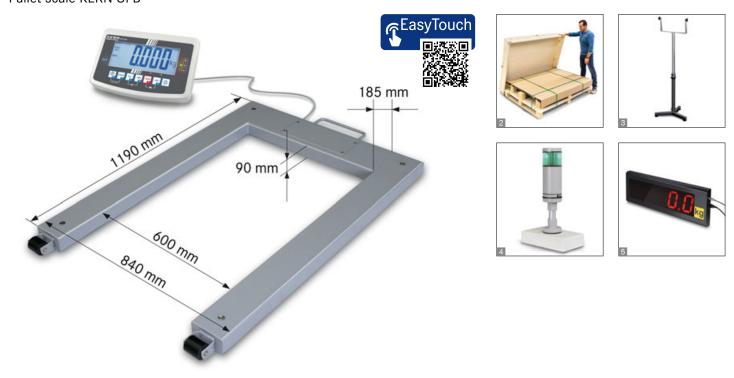








Model	Weighing capacity	Readability			(Option	
		= Verification value		Verificat	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d] = [e]		MIII		DAkkS	
KERN	kg	kg		KERN		KERN	
UID 600K-1M	600	0,2		965-230		963-130	
UID 1500K-1M	1500	0,5		965-230		963-130	
UID 3000K-0M	3000	1		965-232		963-132	
	Dual-range balance switches aut	omatically to the next largest weighing cap	pacity [Max] a	nd readibility	[,] [d]		
UID 600K-1DM	300 600	0,1 0,2		965-230		963-130	
UID 1500K-1DM	600 1500	0,2 0,5		965-230		963-130	
THD 3000K-0DM	1500 3000	0.5.1.1		065-232		063_132	



Pallet scale with steel load support (IP67) and EC type approval [M]

Features

- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- 11 Load support: steel, powder coated, 4 load cells, alloy steel, silicone-coated, IP67, Weighing bridge can also be delivered as component without the display device, for details see KERN KFU-V20
- · Two wheels for easy transportation of the scale
- Weighing with tolerance range (checkweighing): A visual and audible signal assists the rapid checking of items on palettes
- · Totalising of weights and piece counts
- · Protective working cover included with delivery
- Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- · Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 250×160×58 mm
- · Cable length of display device approx. 5 m
- · Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05
- 3 Stand to elevate display device Column height approx. 800 mm, KERN BFS-A07
- Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 12 h, not possible in combination with verification, KERN KFB-A01
- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, not possible in combination with RS 232 data interface, KERN KFB-A03

- · Analogue module, must be ordered at purchase, not possible in combination with signal lamp 0-10 V, KERN KFB-A04 4-20 mA, KERN KFB-A05
- Signal lamp for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03
- 5 Large display with superior display size, KERN YKD-A02
- · Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03
- · Further details, plenty of further accessories and suitable printers see Accessories

Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD







































DAkkS

OPTION











Model	Weighing capacity	Readability	Minimal load		Option		
				Verification		DAkkS Calibr. Certificate	
	[Max]	[d]	[Min]	MIII		DAkkS	
KERN	kg	kg	kg	KERN		KERN	
UFB 600K200M	600	0,2	4	965-230		963-130	
UFB 1.5T0.5M	1500	0,5	10	965-230		963-130	

Not possible in combination with RS 232 data interface







Pallet scale with stainless steel load support (IP67) and stainless steel display device (IP65), with EC type approval [M]

Features

- · High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- II Load support: stainless steel,, extremely resistant to bending due to material thickness, 4 silicone-coated stainless steel load cells, protection against dust and water splashes IP67, weighing bridge can also be delivered as component without the display device, for details see KERN KFU-V30
- Your support in a HACCP-compliant quality system
- · Suitable for the ever-increasing hygienic requirements in the food industry
- Display device: for details see KERN KFN-TM
- The scale can be easily transported using rollers and a handle and does not require much storage space
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value

- · Weighing with tolerance range (checkweighing): A visual and audible signal assists the rapid checking of items on palettes
- · Totalising of weights
- · Internal rechargeable battery pack included with delivery
- 3 Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- · Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- · Cable length of display device approx. 5 m
- · Net weight approx. 50 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- I Stand to elevate display device, height of stand approx. 800 mm, KERN BFN-A04
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 10 h, KERN GAB-A04
- RS 232 data interface including interface cable, KERN KFN-A01
- · Bluetooth data interface, must be ordered at purchase, KERN KFB-A03
- · Analogue module, 0-10 V: KERN KFB-A04 4-20 mA: KERN KFB-A05
- 5 Large display with superior display size, only in combination with data interface KFN-A01, KERN YKD-A02
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03
- Further details, plenty of further accessories and suitable printers see Accessories

Limited tare range with verifiable models 1/6 from [Max]

Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Optionally configurable with IP68 display device on request, details see chapter 13

STANDARD



































FACTORY







Model	Weighing capacity	Readability	Minimal load		Option		
		= Verification value		Verification		DAkkS Calibr. Certificate	
	[Max]	[d] = [e]	[Min]	MIII		DAkkS	
KERN	kg	kg	kg	KERN		KERN	
UFN 600K200IPM	600	0,2	4	965-230		963-130	
UFN 1.5T0.5IPM	1500	0,5	10	965-230		963-130	











Compact, robust drive-through scale – particularly mobile thanks to its carrying handle, rollers and lightweight construction

Features

- Drive-through scale for rapid weighing of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse etc.
- Low platform height and integrated access ramps on both sides facilitate access. No need for pit frame installation - which saves money
- Meighing bridge: Steel, powder coated, 4 silicon-coated aluminium load cells with protection against dust and water splashes to IP67
- 2 Level indicator for accurate levelling of the balance as standard
- 3 Scale can be conveniently transported and stowed away in a space-saving manner by means of particularly sturdy industrial castors and a handle
- · Wall mount for the display device, as standard, only for models without a column
- · Protective working cover included with delivery
- 4 Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- · LCD display, digit height 25 mm
- Overall dimensions W×D×H 1066×1000×80 mm
- · Very low clearance height drive-through area: 40 mm
- Dimensions weighing surface 800×800 mm
- · Dimensions of display device W×D×H 235×114×51 mm
- Cable length of display device approx. 5 m
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- · External mains adapter standard
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN EOB-A04BS05
- · Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07

OPTION

STANDARD















DAkkS
+3 DAYS

Model	Weighing capacity	Readability	Net weight	Option DAkkS Calibr. Certificate
KERN	[Max] kg	[d] kg	approx. kg	DAkkS KERN
NIB 300K-1	300	0,1	40	963-129
NIB 600K-2	600	0,2	40	963-130

Drive-through scale (IP67) with XXL display device and EC type approval [M]

Features

- · Drive-through scale for rapid weighing of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse etc.
- Low platform height and integrated access ramps on both sides facilitate access. No need for pit frame installation - which saves money
- 11 11 Weighing bridge: out of anti-slip corrugated steel, 4 silicone-coated steel load cells, dust and spray protection IP67
 - · Display device: for details see KERN KFB-TM
 - · Protective working cover included with delivery
 - Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- Large backlit LCD display, digit height 52 mm
- Overall dimensions W×D×H
 - A 1600×1200×80 mm
 - **I** 1800×1400×80 mm
- Platform height in the drive-through area:
- Dimensions of weighing surface
 - A W×D 1000×1000 mm
 - **B** W×D 1200×1200 mm
- Dimensions of display device W×D×H 250×160×65 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05
- Stand to elevate display device Column height approx. 800 mm, KERN BFS-A07
- · Pair of base plates to fix the weighing bridge to the floor, KERN BFS-A06









- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 10 h, must be ordered at purchase, KERN KFB-A01
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, not possible in combination with RS 232 data interface, KERN KFB-A03
- · Analogue module, must be ordered at purchase, not possible in combination with signal lamp 0-10 V: KERN KFB-A04 4-20 mA: KERN KFB-A05
- Signal lamp for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03
- 5 Large display with superior display size, KERN YKD-A02
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD











































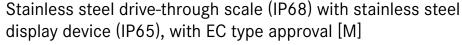






Model	Weighing	Readability	Minimal load	Net weight	Weighing plate		Option		
	capacity	= Verification value				Verification		DAkkS Calibr. Certificate	
	[Max]	[d] = [e]	[Min]	approx.		MIII		DAkkS	
KERN	kg	kg	kg	kg		KERN		KERN	
NFB 600K200M	600	0,2	4	130	Α	965-230		963-130	
NFB 600K200LM	600	0,2	4	165	В	965-230		963-130	
NFB 1.5T0.5M	1500	0,5	10	130	Α	965-230		963-130	
NFB 1.5T0.5LM	1500	0,5	10	155	В	965-230		963-130	





Features

- · Robust stainless steel drive-through scale for rapid weighing of e.g. laundry carts, container trolleys, roller containers, etc. Ideal for hospital laundry services, goods inwards, hospital kitchens, etc.
- Low platform height and integrated access ramps on both sides facilitate access. No need for pit frame installation - which saves money
- Ideal for the increased hygienic requirements in the food, pharmaceutical and chemical industries
- II Weighing bridge: stainless steel, extremely resistant to bending due to material thickness, 4 welded stainless steel load cells, dust and spray protection IP68. Weighing bridge can also be delivered as component without the display device, for details see KERN KFD-V40
- · Your support in a HACCP-compliant quality system
- 2 Display device: for details see KERN KFN-TM
- · Totalising of weights and piece counts
- · Internal rechargeable battery pack included with delivery

 Is Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- · Large backlit LCD display, digit height 52 mm
- · Overall dimensions W×D×H 1600×1200×80 mm
- · Platform height in the drive-through area:
- · Dimensions weighing surface W×D 1000×1000 mm
- Dimensions of display device W×D×H 266×165×96 mm
- · Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C







Accessories

- Stand to elevate display device, height of stand approx. 800 mm, KERN BFN-A04
- · Pair of base plates to fix the weighing bridge to the floor, KERN BFN-A03
- · Internal rechargable battery pack, operating time up to 35 h without backlight, charging time approx. 12 h, KERN GAB-A04
- · Data interface RS-232, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01
- · Bluetooth data interface, must be ordered at purchase, KERN KFB-A03
- · Analogue module, 0-10 V: KERN KFB-A04 4-20 mA: KERN KFB-A05
- Is Large display with superior display size, only in combination with data interface KFN-A01, KERN YKD-A02
- Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03
- · Further details, plenty of further accessories and suitable printers see Accessories

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Optionally configurable with IP68 display device on request, details see chapter 13

STANDARD





































FACTORY



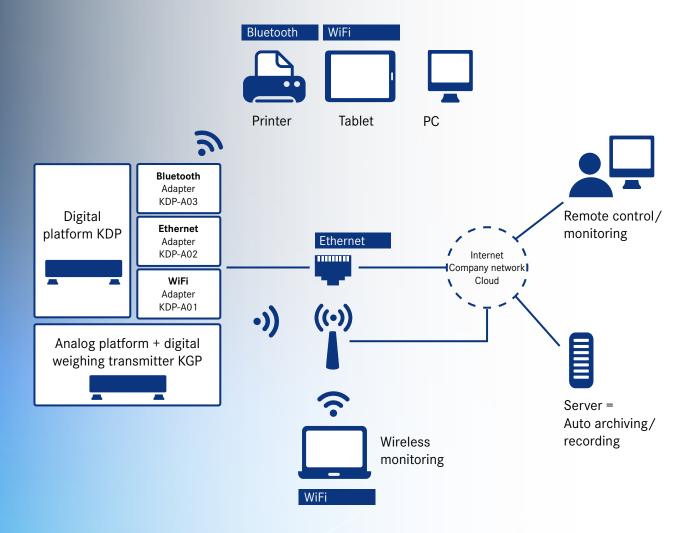






Model	Weighing capacity	Readability	Minimal load	Net weight		Option		
		= Verification value			Verification D		DAkkS Calibr. Certificate	
	[Max]	[d] = [e]	[Min]	approx.	MIII		DAkkS	
KERN	kg	kg	kg	kg	KERN		KERN	
NFN 600K-1M	600	0,2	4	130	965-230		963-130	
NFN 1.5T-4M	1500	0,5	10	125	965-230		963-130	

Weighing Systems Industry 4.0



We will help to combine industrial production with the latest information and communication technology, with the aim of improving quality, reducing costs and using time and resources more efficiently so that you are able to react to future requirements in a more flexible manner. You will benefit from our uniform data protocol combined with our BalanceConnection 4.0 data software, for details please see page 168/169.

The KERN team in our centre of expertise – Industry 4.0









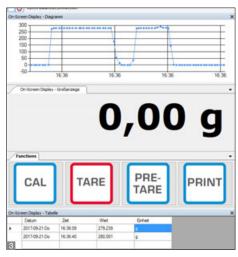
We would like to inform and advise you

Tel. +49 7433 9933-200 ITsupport@kern-sohn.com









Robust industrial platform scale with digital weighing transmitter, ideal for varied range of applications for Industry 4.0

Features

- With this combination of III platform (KERN KFP V20 IP65) and digital weighing transmitter (KERN YKV-01) your weighing processes are ready for the requirements of Industry 4.0. Simply install the platform, connect the digital weighing transmitter to the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard, Power supply via USB interface
- Transfer formats are freely configurable
- · Functions: Weighing, taring
- · Internal resolution 16 million divisions
- · Measurement frequency 10 Hz
- · Easy configuration using the software supplied
- · KERN YKV-01: Robust plastic die-cast housing
- 2 KERN YKV-01: Suitable for wall mounting and DIN track mount (optional)

- · Included with delivery:
 - Industrial platform KERN KFP
 - Digital weighing transmitter KERN YKV-01
 - DIN rail mounting bracket
 - Configuration software for adjusting and managing the KERN KDP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, Oracle etc.

Technical Data

- · Weighing plate material stainless steel
- · KERN YKV: Overall dimensions W×D×H 100×127×28 mm
- Permissible ambient temperature -10 °C/ 40 °C

Accessories

- · Bluetooth data interface, KERN YKV-A02
- · WiFi data interface, KERN YKV-A01
- · Ethernet data interface on request
- 2 DIN rail mounting bracket for KERN YKV, KERN YKV-A03
- 3 Software BalanceConnection, flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, for details see page 168, KERN SCD-4.0

STANDARD



























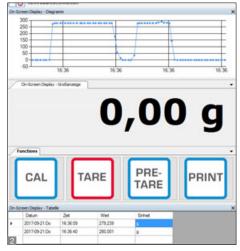


Model	Weighing capacity	Read-out	Weighing plate	Cable length	Net weight	Options
					approx.	DAkkS Calibr. Certificate
	[Max]	[d]				DAkkS
KERN	kg	g	mm	m	kg	KERN
KGP 6K-4	6	0,2	300×240×120	3	6	963-128
KGP 6K-4L	6	0,2	400×300×128	3	10	963-128
KGP 10K-4	15	0,5	300×240×120	3	6	963-128
KGP 10K-4L	15	0,5	400×300×128	3	10	963-128
KGP 30K-3	30	1	300×240×120	3	6	963-128
KGP 30K-3L	30	1	400×300×128	3	10	963-128
KGP 60K-3	60	2	400×300×128	3	10	963-129
KGP 60K-3L	60	2	500×400×137	3	13	963-129
KGP 100K-3	150	5	500×400×137	3	14	963-129
KGP 100K-3L	150	5	650×500×142	3	22	963-129
KGP 300K-2L	300	10	650×500×142	3	22	963-129









Modern digital weighing transmitter for the rapid recording of weighing data and forwarding it to the most varied output channels such as tablets, networks, SPS controllers, etc. - ideal for operating balances in systems or conveyors

Features

- · With this digital weighing transmitter your weighing processes are ready for the requirements of Industry 4.0. Simply connect a weighing platform or measuring cell, integrate the digital weighing transmitter into the network and start weighing
- · For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard, Power supply via USB interface
- Transfer formats are freely configurable
- · Functions: Weighing, taring
- 12 . Measuring frequency 10 Hz
 - · Easy configuration using the software supplied
 - · Robust plastic die-cast housing
 - II Suitable for wall mounting and DIN track
 - · Compatible with all KERN weighing platforms

- · Included with delivery:
 - Industrial platform KERN KFP
 - USB cable incl. mains plug
 - DIN rail mounting bracket
 - Digital weighing transmitter KERN YKV-01
 - 2 Configuration software for adjusting and managing the KERN KDP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, Oracle etc.

Technical Data

- Overall dimensions W×D×H 100×127×28 mm
- · Net weight approx. 1,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Bluetooth data interface, KERN YKV-A02
- · WiFi data interface, KERN YKV-A01
- · DIN rail mounting bracket for KERN YKV, KERN YKV-A03
- Software BalanceConnection, flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, for details see page 168, KERN SCD-4.0

STANDARD















Model	Standard interfaces	
KERN		
VIVV 0.1	DC 222 LICD	
YKV-01	RS-232, USB	
YKV-02	RS-232, USB, Ethernet	
	, ,	











Your contact for technical questions



Stefan Herrmann

Tel. +49 7433 9933-214 stefan.herrmann@kern-sohn.com

Super compact display device (rail-mounted module) for installation in switch cabinets

Features

- Compact display unit for recording weighing data using strain gauge load cells, e.g. in industrial applications
- Due to its small size, it is particularly space-saving to install in switch cabinets
- Thanks to the many interface variants, the modules can be ideally integrated into existing infrastructures and systems
- A The modules can be used either individually or as a Buslink system with a total of up to 332 DIN rail modules
- The configuration of the module can be carried out conveniently via a connected PC with the suitable software (Download see Internet)
- Bright LED display for optical control and settings
- Time-saving G-Cal[™] (Geographic Calibration) technology for fast and accurate calibration without weights conveniently over a network or the Internet worldwide
- Convenient communication via remote devices
- Backup and restore function via USB port
- Can handle various industrial protocols such as Ethernet IP, Modbus TCP, Modbus RTU, FINS and Profibus DP

- Extremely high measurement frequency possible, up to 1600 data records/s
- · Internal resolution 24 Bit

Technical Data

- LCD display, digit height 7,6 mm
- Dimensions W×D×H 101×120×22,5 mm
- ${\mbox{ }}{\mbox{ }}{\mb$

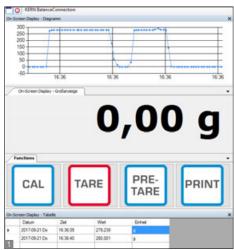
Accessories

 Mains adapter for power supply of the KERN CE HS, mountable on DIN rail, KERN CE HSS

Features	Model KERN							
	CE HSA	CE HSE	CE HSN	CE HSP	CE HSR			
Power supply	18-32 Vdc; 4 W max.							
Load cell power supply	5 Vdc							
Sensitivity	0,1 μV/d							
Adjustable nominal sensitivity	1; 1.5; 2; 2.5; 3 mV/V							
Input voltage Unipolar @3mV/V	-1 mV to +16 mV							
Input voltage Bipolar @3mV/V	-16 mV to +16 mV							
A/D Conversion speed	1600/s	1600/s	1600/s	1600/s	1600/s			
Max. load cell impedance	1200Ω	1200Ω	1200Ω	1200Ω	1200Ω			
Min. load cell impedance	43,75 Ω							
Max. no. of load cells 350 Ω	8	8	8	8	8			
Max. no. of load cells 1000 Ω	22	22	22	22	22			
Max. number of d	10.000	10.000	10.000	10.000	10.000			
Display steps	1,2,5,10,20,50,100,200	1,2,5,10,20,50,100,200	1,2,5,10,20,50,100,200	1,2,5,10,20,50,100,200	1,2,5,10,20,50,100,200			
Communication/Interfaces	USB	USB, Ethernet	USB, PROFINET	USB, PROFIBUS	USB, RS-232/-422			
Analog output	0/4-20/24mA	-	_	_	_			
Dimensions W×D×H	120×110×22 mm							
Net weight g	150	150	150	150	150			

II Models also available with verification approval, please enquire





Universal weighing platforms for flexible connection into process chains

Features

- · Industry 4.0 process chains: these weighing platforms can be easily integrated into your process chain. All recorded values can be easily transferred and processed further in your system as digital data and data that has already been compared using the many interfaces available. This saves cost, time and resources and ensures even more effective working
- Connecting the balance with a tablet or PC offers the advantage of being able to use the apps and programs which are on that device. These apps and programs are usually already tailored to your needs, are easy and convenient to use and can often be expanded as needed. This offers you the maximum level of flexibility when displaying, processing and saving the recorded weighing data
- Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command

structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- · Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- · Draught shield standard for models with weighing plate size A, weighing space W×D×H 146×146×80 mm
- · Included with delivery:
- Software BalanceConnection for adjusting and managing the KERN KDP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs

Technical Data

- Dimensions weighing surface ■ Ø 105 mm
 - B W×D 160×160 mm, see larger picture
- Weighing plate material
- A plastic, with conductive lacquer
- B stainless steel
- Overall dimensions W×D×H 165×166×75 mm (without draught shield)
- Cable length approx. 1,2 m
- · Net weight approx. 1,2 kg
- · Permissible ambient temperature 5 °C / 35 °C

Accessories

- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KDP-A03
- · WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets or laptops, must be ordered at purchase, please ask for delivery time, KERN YMI-A01
- Ethernet data interface, to connect an IP-based Ethernet network, must be ordered at purchase, not in combination with verification, KERN KDP-A02

STANDAR	D
-	Ĭ,





















Model	Weighing capacity	Read-out	Reproducibility	Linearity	Weighing plate	Options	
						DAkkS Calibr. Ce	rtificate
	[Max]	[d]				DAkkS	
KERN	g	g	g	g	mm	KERN	
KDP 300-3	350	0,001	0,002	± 0,005	Α	963-127	
KDP 3000-2	3500	0,01	0,02	± 0,05	В	963-127	
KDP 10K-4	10000	0,1	0,1	± 0,3	В	963-128	
KDP 10K-3	10000	1	1	± 3	В	963-128	

Welcome to the new age of weighing

The KERN EasyTouch software combines the performance of KERN scales with the flexibility of a Windows or Android environment

Find out more about the whole new world of weighing with KERN EasyTouch on the following pages ...







The modular system solution for efficient weighing – perfect for your individual requirements

Just imagine, ...

- ... You only pay for functions which you actually use.
- ... You could develop the range of services of your balance to meet your requirements, whenever you want.
- ... You could easily control your balance from wherever you happen to be, in the laboratory, in production, in the office.
- ... You could do this from a PC or tablet.
- ... You could save the weighing data from your balances in a tamper-proof manner on a central server, whereby all the data is systematically stored in a database.

Then the KERN EasyTouch App (SET) is the perfect solution for you.



Large clear display for optimum view even under poor environmental conditions.



All installed functions are clearly arranged, enabling lightning-fast switching between functions.



The functions can be adapted extensively to meet your particular requirements.



Upgrade your scale into a powerful weighing system

Using the KERN EasyTouch App even a simple single scale can be transformed into a powerful weighing system, which offers a range of functions. To do this you simply have to install the KERN EasyTouch App on your PC or tablet (Windows® or Android®), connect the balance (either with cable or wireless), activate the App and straightaway you will be able to control your balance using your PC or tablet.

In order to find out about the many advantages of the KERN EasyTouch App, you can download a demo version of the App which contains the full range of functions, i.e. you can get started straightaway and test all the functions in your own time!

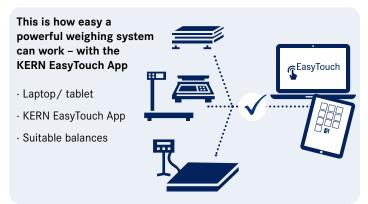
In addition to the pre-installed functions the KERN EasyTouch App offers these additional handy functions:

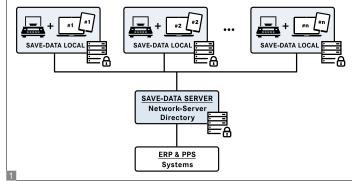
- Large database for item master data, container weights, product images etc.
- Large database for dynamic weighing data (tamper-proof measurement value memory, logging of changes to master data, high level of data integrity, etc.)
- · Access to the large database from all KERN EasyTouch functions
- Storage facility for an individual ID number or an object name for each weighing process or object in the tamper-proof Measurement value memory
- User ID with date and time is also saved for each weighing process
- Individual user administration (Administrator, User, permissions, ...), cross-functional

- Application of different weighing scales in one workflow (e.g. formulation or counting) possible, with full data-traceablility (what item was measured on which weighing device)
- A large range of menu languages (DE, EN, FR, IT, ES, other languages on request)
- Individual print formats for printouts, including use of logos and free text
- It is possible to read barcodes using the connected barcode scanner
- All recorded weights can be printed from the individual functions using a connected network printer
- In Convenient initial reading of large amounts of data, e.g. from an ERP, PPS, ... system, e.g. SAP®, and permanent synchronization of weighing and measurement data between the connected measuring instruments and the ERP, PPS, ... systems, e.g. SAP
- · Compatible with Bluetooth 2.0 and 4.0
- Your KERN EasyTouch system can be expanded with many more, useful functions, which will make your daily work easier. Please see the table below or visit www.kern-sohn.com for information about all available functions

Can't find the function you need or you have a particularly specific application?

Then you can simply program your own customised function – or just ask us, our team of software specialists will be happy to help you.







Test it - completely without risk!

▶ simple

Simply download the KERN EasyTouch software from the Microsoft Store $^{\! @}$ or Google Play $^{\! @}.$

The KERN EasyTouch software already contains all available functions right from the start.

▶ tailor-made

The "Basic Weighing Package" contains full database functionality. In addition they form the starting point for activating all other KERN EasyTouch functions. SET-01 OS forms the operating system with extensive basic functions. The operating system is the prerequisite for all other KERN EasyTouch Apps. All other apps can be customised on the basis of SET-01 OS.

easy

Test it for 4 weeks, without obligation and free of charge!

After 4 weeks the functions go into sleep mode and you decide which functions you want to activate.

extensive

Every purchased function license allows:

- 4 installations on PC or tablet
- the installation of an unlimited number of scales, measuring cells etc.
- · as well as use by as many users as you want
- · for an unlimited period



Weighing the easy way – Do you want to store weighing data digitally, simply but secure? You want your users to be supported in their weighing processes? You want to reduce or avoid measuring errors and process errors? Then extend the range of functions of your scale with the KERN EasyTouch App. Whether for complex recipes, for exact piece counting or for fast and effective portioning – KERN EasyTouch always has the right function. Faster working, more comfortable data management and higher process reliability are only some of the benefits of KERN EasyTouch – weighing the easy way.





Connection possibilities KERN EasyTouch:

- wired via an RS-232 interface
- wireless via Bluetooth

■ Suitable RS-232/USB adapter for connecting a tablet, PC etc. to scales or measuring instruments with RS-232 output, KERN AFH 13



The new KERN EasyTouch app – available right now for the following KERN ranges/models:

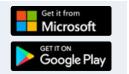
	KERN Balanc	es and Weighing platf	forms	Scales from other manufacturers
440	DS	IXS	PNS/PNJ	Precisa Gravimetrics AG, CH
572/573	EG-N	KDP	SFB	Mettler-Toledo International Inc., USA, CH
ADB / ADJ	EW-N	KGP	sxs	
ALS/ALJ	FCB	NFN	UFA	
BFB	FKB	NFB	UIB	
BFN	GAB	РСВ	UID	
BID ⁽¹⁾	IFB	PCD	KFB-TM	
CFS	IFS	PES/PEJ	KIB-TM (1)	
CKE	IOC (1)	PLS/PLJ	KXS-TM	

⁽¹⁾ Verified operation: Weighing data from legally regulated uses can be stored and archived in KERN EasyTouch in conformity with standards, by using models from this product family with valid calibration and measurement value memory. This standard-compliant data storage also applies to SaveServer and SaveCloud.

Other KERN ranges can be adapted to be EasyTouch compatible – keep up-to-date with the latest new on **www.kern-sohn.com**



KERN EasyTouch App – available in the Microsoft Store® (Windows® version) or in the Google Play Store® (Android™ version)



All details about the new KERN EasyTouch App can be found at ${\bf www.kern\text{-}sohn.com/EasyTouch}$



Ina Reger



Edgar Litti



Daniel Egeler

Our KERN EasyTouch specialists will gladly inform and advise you on all questions regarding the new KERN EasyTouch App

Tel. +49 7433 9933-200 ETsales@kern-sohn.com

Display devices/Platforms/Weighing bridges

Putting together individual weighing systems which cannot be verified

KERN offers a range of KERN display devices and KERN weighing units, such as platform scales, floor scales, pallet scales and drive-through scales, which you can put together to make your ideal scale. You choose the components, KERN handles the rest.

Assembly

KERN delivers the complete scale which is ready to use. Prices for assembly can be found in the "Assembly" price table. On request we can also create a calibration certificate in accordance with DAkkS/DKD at an additional price, see page 202 ff.

Putting together individual weighing systems which can be verified or are verified

In order to provide the complete package, as well as assembling your individual weighing system, KERN will also carry out the manufacturer's initial verification/evaluation for conformity in accordance with EC directives as a commercial scales of verification class III.

In accordance with the European verification regulations, when assembling a display device with a weighing unit you must take the following notes into account:

- Only elements which can be verified with type approval or OIML test certificate can be combined into a weighing system which can be verified. Possible models are marked with "M"
- Platforms with load cells, provided as third-party products which have an OIML test certificate can be included.
- It will not be possible to carry out verification at a later date, e.g. after assembly and delivery of the weighing system.
 So please order the verification at the same time as you order the weighing system.

You will find a wide variety of display devices, platforms, weighing bridges, etc. in KERN's product range and these can be put together to create your ideal scale. You simply choose the components, KERN handles the rest.



The individual KERN steps:

1. Proof of compatibility This is mandatory by law and includes testing by using type approvals, whether the connection values of the display device match the connection	Weighing capacity 0 up kg	Model KERN	Price excl. of VAT, ex works €
data of the weighing unit.	all Weighing capacities	965-240	45,-
	1		
2. Assembly	up ≤ 50 kg	965-411	70,-
After testing for suitability using the proof of compatibility, the weighing	up ≤ 350 kg	965-412	100,-
system will be hard wired by KERN. The weighing system will then be tested	up ≤ 1500 kg	965-413	120,-
in accordance with regulations of 2014/31/EU, the European directive for non-automatic weighing instruments and prepared for conformity assessment.	up ≤ 2900 kg	965-414	150,-
	up ≤ 6000 kg	965-415	250,-
3. Initial verification by the manufacturer	up ≤ 5 kg	965-227	55,-
onformity assessment ("Initial verification by the manufacturer")	up ≤ 50 kg	965-228	70,-
KERN is authorised to carry out the conformity assessment ("initial verification	up ≤ 350 kg	965-229	93,-
by the manufacturer") in accordance with 2014/31/EU, the European directive for non-automatic weighing instruments and is therefore authorised to	up ≤ 1500 kg	965-230	132,-
introduce the weighing system onto the market, after the test has been carried	up ≤ 2900 kg	965-231	150,-
out successfully and the conformity mark has been affixed.	up ≤ 6000 kg	965-232	200,-
4. Declaration of conformity			
KERN issues this after the initial verification by the manufacturer Conformity			
assessment has been carried out successfully and sends it with the weighing			
system at no additional cost, and it can be used in areas regulated by law.			

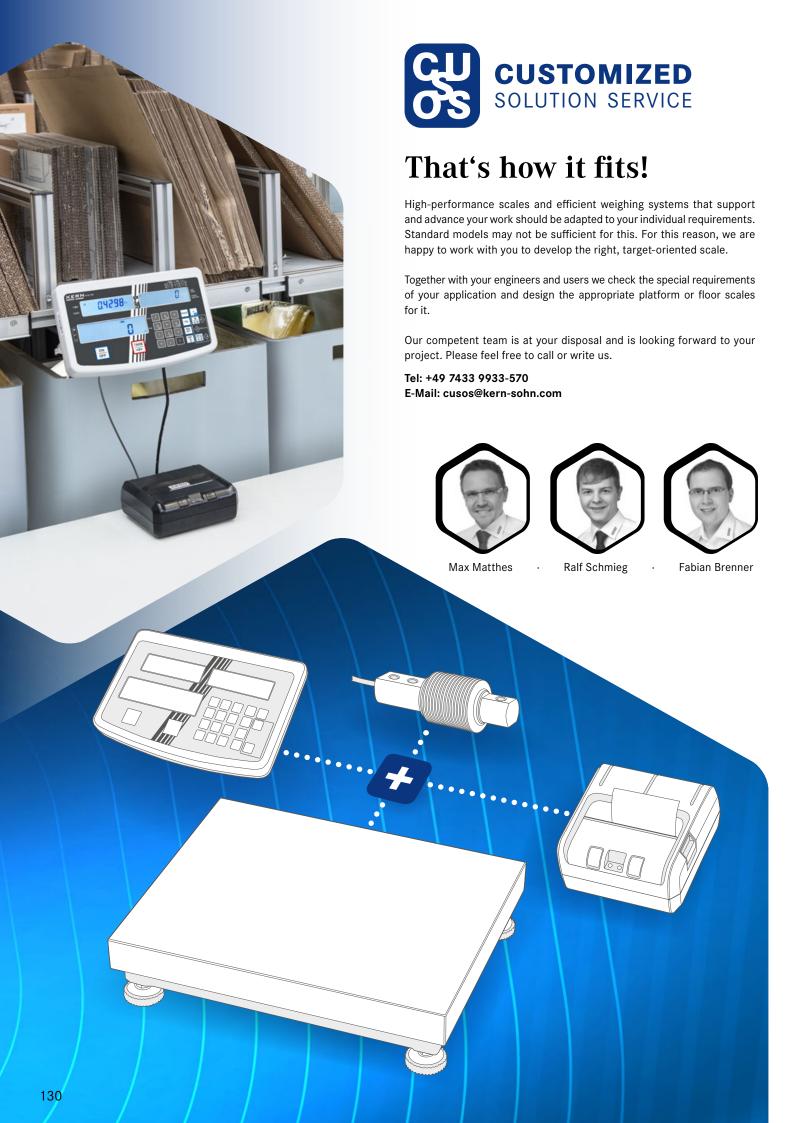
Modifications and special services

Description	Model KERN	Price excl. of VAT, ex works €			
Cable extensions for platform scales					
up to 4 m extension	965-403	45,-			
up to 7 m extension	965-404	60,-			
up to 20 m extension 965-405					
Individual settings					
Scale with NAWI conformity evaluation, only in combination with KERN 965-240	965-401	50,-			
Other adjustments in the balance or software changes	965-407 95,-				
Plug connection (replaces the fixed cable connection between the display device and platfo	orm with a plug connection which can be	disconnected)			
only possible with separable plug connection with identification (according to time spent) balances with type approval and verification (according to time spent) c.g. KERN KIB-A12), for the comodels (e.g. IOC, BID, UID) when purchasing					
balances with type approval, no verification	965-406	60,-			

[■] Delivery time for modifications & special services approx. 5-8 working days

Order example

KFP 30V20M platform and KEN-TM display device with cable extension (4 m) and setting an individual preload.	Model KERN	Price excl. of VAT, ex works €
KERN platform	KFP 30V20M	275,-
KERN display device	KFN-TM	330,-
Proof of compatibility	965-240	45,-
Cable extension	965-403	45,-
Setting the preload	965-401	50,-
Assembly	965-411	70,-
Verification at the factory KERN	965-228	70,-
Complete scale (verified)		800,-







III KERN KFB-TM

Display device with large digits – easy to read and optional analogue output for controlling systems (PLC) etc.

EXERN KFS-TM

Professional indicator with 3 displays, also with EC type approval [M]



to see what options are offered by this display device, please see the KERN platform scale IFB on page 97



to see what options are offered by this display device, please see the KERN counting scale IFS on page 78





- not possible in combination with verification.
 When installing the Bluetooth data interface, the RS-232 data interface can no longer be used
- ** not possible in combination with signal lamp.
 When installing the analogue module, the RS-232
 data interface can no longer be used

Features	Model KERN	Model KERN
	■ KFB-TM	2 KERN KFS-TM
Display (segments)	5 + ½ digits	6 digits
EC type approval	yes	yes
Resolution verifiable	6000 e	3000 e
Resolution non verifiable	30000 d	60000 d
Weighing capacities	≤ 2	≤ 2
Weighing units	kg, lb	kg, g
Readability	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	10, 20, 50, 100, 200	n
Display, digit height	Backlit LCD display, 52 mm	Backlit LCD displays, 13/16,5 mm
Additional functions	Totalising, HOLD function, Integrated KERN Communication Protocol (KCP), ideal for connecting an Merchandise Management or ERP system, Compatible with the KERN EasyTouch App	99 item memories, totalising, printing of date and time, Integrated KERN Communication Protocol (KCP), ideal for connecting an Merchandise Management or ERP system, Compatible with the KERN EasyTouch App
Strain gauge load cells	87 - 1600 Ω	87 - 1600 Ω
Linearisation	3 points	4 points
Input voltage	12 V, 500 mA	12 V, 500 mA
Permissible ambient temperature	-10 °C/40 °C	0 °C/40 °C
Interface RS-232	yes	yes
2. Interface RS-232, separate Y cable	CFS-A04, € 35,-	CFS-A04, € 35,-
Interface RS-485	-	-
Interface USB	-	-
Interface Bluetooth	KERN KFB-A03, see page 97, € 135,-	-
Analogue module	0–10V: KERN KFB-A04, € 100,-; 4–20 mA: KERN KFB-A05, € 100,-; see page 97	-
Signal lamp	CFS-A03, € 280,-	CFS-A03, € 280,-
Foot switch	-	-
Stand	BFS-A07, see page 97, € 140,-	BFS-A07, see page 78, € 140,-
Benchtop stand for display device/wall mount		yes/yes
Protective working cover	KFB-A02S05, see page 97, € 40,-	KFB-A02S05, see page 78, € 40,-
Rechargeable battery pack	KFB-A01, see page 97, € 35,-	KFB-A01, see page 78, € 35,-
Operating/charging time	up to 35 h/12 h	up to 40 h/12 h
Dimensions Housing W×D×H	250×160×65 mm	260×150×65 mm
Net weight	1,2 kg	1,5 kg
Price excl. of VAT, ex works €	220,-	235,-









III KERN KIB-TM

Practical Flip/Flop display device for greatest ease of use

- · Practical Flip/Flop display device: flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet. Factory Option ex works for an additional cost, delivery time + 2 working days, KERN KIB-M01, € 95,-
- Industry 4.0: A large number of (optional) data interfaces enable convenient transferring weighing data to tablets, labtops, PCs, networks, smartphones, printers, etc.
- · Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol. Only possible through RS-232 data interface, other interfaces on request.
- In the KERN product range you will find a large number of platforms, weighbridges etc. which you can combine with the KERN KIB-TM display device. Simply select the components, KERN will take care of the rest.
- * Note: In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

STANDARD



13





























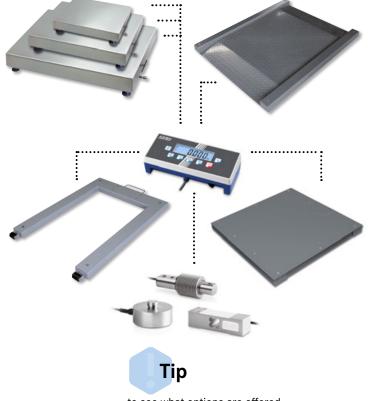








Features	Model KERN
	■ KIB-TM
Display (segments)	6 digits
EC type approval	yes
Resolution verifiable	6000 e
Resolution non verifiable	60000 d
Weighing capacities	≤ 2
Weighing units	kg, g
Readability	1, 2, 5, 10, n
Piece counting with reference	5, 10, 20, 25, 50, 100
Display, digit height	Backlit LCD display, 24 mm
Additional functions	Totalising, HOLD function, printing of
	time. KCP Only possible through RS-232;
	USB, Bluetooth, WiFi, Digital I/O, LAN
	on request
Strain gauge load cells	87-1100 Ω
Linearisation	3 points
Input voltage	12 V DC, 1000 mA
Permissible ambient	-10 °C/40 °C
temperature	-10 C/40 C
Interface RS-232	yes*
Interface RS-485	-
Interface USB	KIB-A03*, see page 102, € 120,-
Interface Bluetooth	KIB-A04*, see page 102, € 110,-
WiFi	KIB-A10*, see page 102, € 120,-
SWITCH (DIGITAL I/O)	_
LAN	KIB-A02*, see page 102, € 150,-**
Alibi memory	KIB-A01, € 150,-
Stand	EOC-A05, see page 102, € 60,-
Benchtop stand for display device/wall mount	EOC-A04, € 30,-
Protective working cover	EOC-A01S05, € 40,-
Rechargeable battery pack	KFB-A01, see page 102, € 35,-
Operating/charging time	up to 43 h/3 h
Dimensions Housing W×D×H	268×115×70 mm
Net weight	0,8 kg
Price	190,-
excl. of VAT, ex works €	170,-



to see what options are offered by this display device, please see the KERN platform scale IOC on page 95/96





4 KERN KFN-TM

Stainless steel display device with IP65 protection and superior display size and optional analogue output for controlling systems (PLC) etc.



M

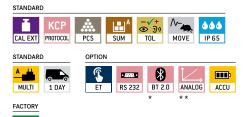
to see what options are offered by this display device, please see the KERN SFB platform scale on page 63

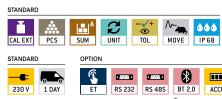
5 KERN KXS-TM

Stainless steel display device with IP68 protection and integrated power supply



to see what options are offered by this display device, please see the KERN SXS platform scale on page 64/65





FACTORY

- not possible in combination with verification.
 When installing the Bluetooth data interface, the RS-232 data interface can no longer be used
- ** not possible in combination with signal lamp.
 When installing the analogue module, the RS-232
 data interface can no longer be used

Features	Model KERN	Model KERN
	4 KFN-TM	5 KXS-TM
Display (segments)	5 + 1/2 digits	6 digits
EC type approval	yes	yes
Resolution verifiable	6000 e	10000 e
Resolution non verifiable	30000 d	30000 d
Weighing capacities	≤ 2	≤ 2
Weighing units	kg	kg, g
Readability	1, 2, 5, 10, n	1, 2, 5, 10, 50
Piece counting with reference	10, 20, 50, 100, 200	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 52 mm	Backlit LCD display, 55 mm
Additional functions	Totalising, HOLD function	PRE-Tare function, totalising, HOLD function, peak hold,
		zero-point memorisation
Strain gauge load cells	87 - 1600 Ω	87 – 1600 Ω
Linearisation	3 points	2-7 points
Input voltage	12 V, 500 mA	220-240 V AC
Permissible ambient temperature	-10 °C/40 °C	-10 °C/40 °C
Interface RS-232	KFN-A01, see page 62, € 95,-	KXS-A04, € 100,-
Interface RS-485	-	KXS-A01, € 145,-
Interface USB	-	-
Interface Bluetooth	-	KXS-A02, € 170,- (balance ► PC)
Analogue module	0-10V: KERN KFB-A04, € 100,-; 4-20 mA: KERN KFB-A05, € 100,-; see page 97	-
Foot switch	-	KXS-A03, € 130,-
Stand	BFS-A07, see page 62, € 140,-	YKP-02, € 200,-
Benchtop stand for display device/wall mount	yes/yes	yes/yes
Protective working cover	-	KERN KXS-A07S05, € 40,-
Rechargeable battery pack	GAB-A04, € 40,-	GAB-A04, € 40,-
Operating/charging time	up to 35 h/12 h	up to 80 h/12 h
Dimensions Housing W×D×H	266×165×96 mm	232×170×80 mm
Net weight	2,6 kg	2,5 kg
Price excl. of VAT, ex works €	330,-	360,-



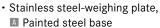
KERN KFP-V20 IP65

Platform









- 1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e
- · Level indicator and levelling feet for precise levelling of the scale



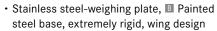
KERN KXP-V20 IP65

Platform

STANDARD







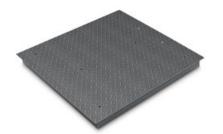
- 1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e
- · Level indicator and levelling feet for precise levelling of the scale

Other platform sizes, special construction, individual scale construction according to your individual requirements, also possible with third-party components, please enquire





Model	Weighing	Readability	Verification	Min.	Cable length	Net weight	Weighing	Price
Woder	range	Readability	value	load	approx.	approx.	plate	excl. VAT,
	[Max]	[d]	[e]	[Min]	app. 57.1	app. o.v.	W×D×H	ex works
KERN	kg	g	g	g	m	kg	mm	€
■ Platform KFP-V2	0 IP65				1	L		
KFP 3V20M	3	0,1	1	20	2,5	3,6	230×230×110	170,-
KFP 6V20M	6	0,2	1 2	40	2	3,6	230×230×110	170,-
KFP 6V20LM	6	0,2	1 2	40	2,5	6	300×240×110	220,-
KFP 15V20M	15	0,5	2 5	100	2	6	300×240×110	220,-
KFP 15V20LM	15	0,5	2 5	100	2,5	10	400×300×125	270,-
KFP 30V20SM	30	1	10	200	2,5	6	300×240×110	215,-
KFP 30V20M	30	1	5 10	200	2	10	400×300×125	275,-
KFP 60V20M	60	2	10 20	400	2	10	400×300×125	280,-
KFP 60V20LM	60	2	10 20	400	2	10	500×400×137	360,-
KFP 150V20M	150	5	20 50	1000	2	10	500×400×137	360,-
KFP 150V20LM	150	5	20 50	1000	2	22	650×500×135	570,-
KFP 300V20M	300	10	50 100	2000	2	22	650×500×135	530,-
KFP 600V20AM	600	20	200	4000	2,5	46	800×600×150	1760,-
Platform KXP-V2	20 IP65							
KXP 6V20LM	6	0,2	1 2	40	3	3,2	300×240×90	290,-
KXP 15V20M	15	0,5	2 5	100	3	3,2	300×240×90	300,-
KXP 15V20LM	15	5	5	100	3	8	400×300×90	390,-
KXP 30V20M	30	1	5 10	200	3	8	400×300×90	390,-
KXP 30V20LM	30	1	5 10	200	3	18	500×400×123	530,-
KXP 60V20M	60	2	10 20	400	3	11	400×300×90	400,-
KXP 60V20LM	60	2	10 20	400	3	22	500×400×123	550,-
KXP 150V20M	150	5	20 50	1000	3	18	500×400×123	530,-
KXP 150V20LM	150	5	20 50	1000	3	34	650×500×133,5	650,-
KXP 300V20M	300	10	50 100	2000	3	34	650×500×133,5	650,-



III KERN KIP-V20M

Weighing bridge





- · Weighing bridge with non-slip chequer plate, lacquered, welded
- · 4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e
- · Can be built in using pit frames (optional)
- · Level indicator and levelling feet for precise levelling of the scale
- · Easy access to the junction box from the top
- Comfortable levelling of the weighing bridge from the top
- · Accessories see KERN BID, page 105/106



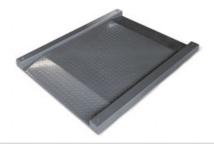
KERN KFP-V20 IP67

Weighing bridge





- Weighing plate screwed on from the top (models with [Max] \leq 1500 kg), so it easy to remove, hygienic and easy to clean.
- · Lacquered steel weighing bridge, weighing plate size 1500×1500×130 mm corrugated steel plate. Extremely resistant to bending due to material thickness
- 4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e
- · Can be built in using pit frames (optional)
- · Level indicator and levelling feet for precise levelling of the scale
- · Easy access to the junction box from the top
- Comfortable levelling of the weighing bridge from the top
- · Accessories see KERN BFB, page 107/108



II KERN KFD-V20

Weighing bridge







- · Weighing bridge made of non-slip corrugated steel plate, lacquered, two access ramps integrated, extremely resistant to bending
- · Extremely flat construction to facilitate access: access height only 45 mm
- · 4 Load cells, alloy steel, silicone-coated, IP67, OIML-R60-approved class III, 3000 e
- · Accessories see KERN NFB page 116



Model	Weighing	Readability	Verification	Min.	Cable length	Net weight	Weighing	Price
	range		value	load	approx.	approx.	plate	excl. VAT,
	[Max]	[d]	[e]	[Min]			W×D×H	ex works
KERN	kg	g	g	g	m	kg	mm	€
■ Weighing bridge	KIP-V20M				I.			
KIP 600V20SM	600	200	200	4000	5	130	1000×1000×108	980,-
KIP 600V20M	600	200	200	4000	5	150	1500×1200×108	1310,-
KIP 1500V20SM	1500	500	500	10000	5	130	1000×1000×108	1140,- 🔱
KIP 1500V20EM	1500	500	500	10000	5	140	1200×1000×108	1070,-
KIP 1500V20M	1500	500	500	10000	5	150	1500×1200×108	1310,- 🕛
KIP 3000V20M	3000	1000	1000	20000	5	150	1500×1200×108	1310,-
KIP 3000V20LM	3000	1000	1000	20000	5	180	1500×1500×108	1560,-
4 Weighing bridge	KFP-V20 IP67							
KFP 600V20SNM	600	200	200	4000	5	105	1000×1000×80	1220,-
KFP 600V20NM	600	200	200	4000	5	135	1500×1250×80	1760,-
KFP 1500V20SNM	1500	500	500	10000	5	105	1000×1000×80	1260,-
KFP 1500V20NM	1500	500	500	10000	5	135	1500×1250×90	1730,-
KFP 3000V20NM	3000	1000	1000	20000	5	135	1500×1250×90	1760,-
KFP 3000V20LNM	3000	1000	1000	20000	5	155	1500×1500×80	1960,-
KFP 6000V20M	6000	2000	2000	40000	5	210	1500x1500x130	2320,-
Weighing bridge	KFD-V20							
KFD 600V20M	600	200	200	4000	5	125	1600×1200×78	1700,-
KFD 600V20LM	600	200	200	4000	5	155	1800×1400×80	2000,-
KFD 1500V20M	1500	500	500	10000	5	125	1600×1200×78	1700,-
KFD 1500V20LM	1500	500	500	10000	5	175	1800×1400×78	2000,-



III KERN KFA-V20

Weighing beams



- · Weighing beams and painted steel base
- · 4 load cells, alloy steel, silicone-coated, IP67
- Levelling feet for precise levelling of the weighing beams
- Image below: Version up to 6 t available.
 Each weighing beam has a roller and handle for easy transport of the scale (KERN KFA-L)
- NEW: new model with short weighing beams, ideal for weighing compact items or animals in transport boxes
- ► KERN KFA-600V20S
- · Accessories see KERN UFA, page 110



KERN KFU-V20/V30

U-Weighing bridge





- Load range: painted steel (V20), stainless steel (V30) height 90 mm
- 4 load cells, alloy steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e
- 2 rollers and handle for easy transport of the scale
- · Accessories KFU-V20 see KERN UFB, page 113
- · Accessories KFU-V30 see KERN UFN, page 114



B KERN KFP-V30

Platform



- Stainless steel-weighing plate,
 Stainless steel substruction
- 1 load cell, Stainless steel, silicone-coated, IP67, OIML-approved, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale





Model	Weighing	Readability	Verification	Min.	Cable length	Net weight	Weighing	Price
	range	-	value	load	approx.	approx.	plate	excl. VAT,
	[Max]	[d]	[e]	[Min]			W×D×H	ex works
KERN	kg	g	g	g	m	kg	mm	€
6 Weighing beams	KFA-V20							
KFA 600V20S	600	200	-	-	5	30	800×120×100	850,-
KFA 1500V20	1500	500	-	-	5	36	1200×120×100	930,-
KFA 3000V20	3000	1000	-	=	5	36	1200×120×100	960,-
KFA 3000V20L	3000	1000	-	-	5	65	2000×120×100	1200,-
KFA 6000V20	6000	2000	-	=	5	85	1200×160×80	1290,-
KFA 6000V20L	6000	2000	-	-	5	125	2100×160×85	1690,-
U-Weighing bridg	☑ U-Weighing bridge KFU-V20							
KFU 600V20M	600	200	200	4000	5	55	840×1350×90	1130,-
KFU 1500V20M	1500	500	500	10000	5	55	840×1350×90	950,-
Stainless steel U	J-Weighing bridge	KFU-V30						
KFU 600V30M*	600	200	200	4000	5	55	840×1350×90	1600,-
KFU 1500V30M*	1500	500	500	10000	5	55	840×1350×90	1600,-
Stainless steel p	latform KFP-V30							
KFP 15V30M	15	0,5	5	100	2,5	5,0	300×240×100	560,-
KFP 30V30SM	30	10	10	200	2,5	5,0	300×240×100	550,-
KFP 30V30M	30	1	10	200	2,5	10	400×300×128	620,-
KFP 60V30M	60	2	20	400	2,5	10	400×300×128	630,-
KFP 60V30LM	60	2	20	400	2,5	10	500×400×137	770,-
KFP 60V30XLM	60	2	20	400	2,5	22	650×500×142	1090,-
KFP 150V30SM	150	5	50	1000	2,5	10	400×300×128	620,-
KFP 150V30M	150	5	50	1000	2,5	10	500×400×137	770,-
KFP 150V30LM	150	5	50	1000	2,5	22	650×500×135	1100,-
KFP 300V30M	300	10	100	2000	2,5	22	650×500×135	1050,-

* ONLY WHILE STOCKS LAST!



III KERN KFP-V40

Weighing bridge





- Weighing bridge entirely made of stainless steel, extremely resistant to bending because of its high material thickness
- Weighing plate fixed with stainless steel screws, for easier access to the loadcells from above
- 4 load cells, stainless steel, encapsulated, IP68, OIML-R60-approved, class III, 3000 e
- Can be built in using pit frames (optional)
- Level indicator and levelling feet for precise levelling of the scale
- Comfortable levelling of the weighing bridge from the top
- Accessories see KERN BFN, page 109



III KERN KFD-V40

Weighing bridge







- Weighing bridge made from stainless steel, two integrated access ramps, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- 4 load cells, stainless steel, encapsulated IP68, OIML-R60-approval for verification, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale
- Accessories see KERN NFN, page 117



Model	Weighing range [Max]	Readability [d]	Verification value [e]	Min. Ioad [Min]	Cable length approx.	Net weight approx.	Weighing plate W×D×H	Price excl. VAT, ex works
KERN	kg	g	g	g	m	kg	mm	€
Stainless steel w	Stainless steel weighing bridge KFP-V40							
KFP 600V40SM	600	200	200	4000	5	95	1000×1000×80	2680,-
KFP 1500V40M	1500	500	500	10000	5	135	1500×1250×80	3460,-
KFP 1500V40SM	1500	500	500	10000	5	95	1000×1000×80	2700,-
KFP 3000V40M	3000	1000	1000	20000	5	135	1500×1250×80	3800,-
Stainless steel w	Stainless steel weighing bridge KFD-V40							
KFD 600V40M	600	200	200	4000	5	130	1600×1200×78	2700,-
KFD 1500V40M	1500	500	500	10000	5	130	1600×1200×78	2700,-

Measuring cells

Accuracy classes with nominal loads from 300 g to 100 t and protection classes up to IP69K as well as cells protected according to ATEX or OIML approved cells are available to you from now in the SAUTER product range. Whatever the project – whether it's the development of customised weighing systems, installation in silos and storage tanks or in shelving for continuous inventory, for special application in mechanical engineering or in any type of test bench – SAUTER can offer you just the right measuring cell.

Of course, we can also supply you with the appropriate accessories such as load corners, pivot heads, display devices, junction boxes or the relevant calibration certificate at the same time.

Any special requests? Do you need special load cells, other capacities or cable lengths, individual force test benches or a special mount for your test item? No problem, our product specialist for force-measuring cells Mr Stefan Herrmann is available at any time to help you further and will work with you to develop a customised concept for your application.



Stefan HerrmannProduct specialist Load cells

Tel. +49 7433 9933-214 stefan.herrmann@kern-sohn.com

BALANCE MANUFACTURE

Load cell + Junction Box + KERN YKV



SAUTER measuring cells – integration opportunities

13.1





CP P4 · CP Y4

Single-point load cells made of anodised aluminium

STANDARD





- · CP P4: Accuracy in accordance with OIML R60 C3
- CP Y4: Accuracy in accordance with OIML R60 C2
- · CE and RoHS compliant
- Dust and spray protection to IP65 (in accordance with EN 60529)
- · Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size 200×200 mm
- 4-wire connection
- · Nominal sensitivity: 0,9 mV/V

CP P1 · CP Y1

Single-point load cells made of anodised aluminium

STANDARD 444





- · CP P1: Accuracy in accordance with OIML R60 C3
- CP Y1: Accuracy in accordance with OIML R60 C2
- · CE and RoHS compliant
- Dust and spray protection to IP65 (in accordance with EN 60529)
- · Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size 250×350 mm
- 4-wire connection
- · Nominal sensitivity: 2 mV/V
- · Note: Version in accordance with OIML R60 C4 or C5 on request

CP P3

Single-point load cells made of anodised aluminium

444







- · Accuracy in accordance with OIML R60 C3
- · CE and RoHS compliant
- · Dust and spray protection to IP65 (in accordance with EN 60529)
- · Suitable for price-computing scales, bench scales, platform scales, etc.
- · Maximum platform size 350×400 mm
- 4-wire connection
- · Nominal sensitivity: 2 mV/V
- · Note: Version in accordance with OIML R60 C4 on request

Model	Nominal load	Price excl. of VAT ex works
SAUTER	kg	€
CP 300-0P4	0,3	60,-
CP 600-0P4	0,6	60,-

Model	Nominal load	Price excl. of VAT ex works
SAUTER	kg	€
ECO design		
CP 300-0Y4	0,3	45,-
CP 1500-0Y4	1,5	45,-
CP 3000-0Y4	3	45,-

Model	Nominal load	Price excl. of VAT ex works
SAUTER	kg	€
CP 3-3P1	3	55,-
CP 5-3P1	5	55,-
CP 6-3P1	6	55,-
CP 8-3P1	8	55,-
CP 10-3P1	10	55,-
CP 15-3P1	15	55,-
CP 20-3P1	20	55,-
CP 30-3P1	30	55,-
CP 35-3P1	35	55,-
CP 40-3P1	40	55,-
CP 50-3P1	50	55,-

Model	Nominal load	Price
		excl. of VAT
		ex works
SAUTER	kg	€
ECO design (without EC type approval)		
CP 3-2Y1	3	30,-
CP 5-2Y1	5	30,-
CP 10-2Y1	10	30,-
CP 15-2Y1	15	30,-
CP 20-2Y1	20	30,-
CP 30-2Y1	30	30,-

Model	Nominal load	Price excl. of VAT ex works
SAUTER	kg	€
CP 30-3P3	30	70,-
CP 40-3P3	40	70,-
CP 50-3P3	50	70,-
CP 75-3P3	75	70,-
CP 100-3P3	100	70,-

New model









CP P2

Single-point load cells of aluminium

OPTION



- · Accuracy in accordance with OIML R60 C3
- · RoHS compliant
- Dust and spray protection to IP65 (in accordance with EN 60529)
- · Aluminium, anodised
- Suitable for price-computing scales, bench scales, etc.
- Maximum platform size 100–300 kg: 400×400 mm
- Maximum platform size 400–500 kg: 450×450 mm
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 or C5 on request

CP P7

Single-point load cells of stainless steel





- · Accuracy in accordance with OIML R60 C3
- · RoHS compliant
- Dust and spray protection to IP67 (in accordance with EN 60529)
- · Stainless steel
- Application example: Weight as well as compressive force measurements under harsh environmental conditions
- Suitable for bench scales, price-computing scales
- Maximum platform size 400×400 mm
- 6-wire connection
- · Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 on request

CP P9

Single-point load cells of stainless steel

STANDARD







- · Accuracy in accordance with OIML R60 C3
- · RoHS compliant
- Dust and spray protection to IP68/IP69K (in accordance with EN 60529 resp. ISO 20653), welded to create a hermetic seal
- · Stainless steel
- Area of application: Weight measurement as well as compressive force in harsh environments
- Suitable for platform scales, checkweighers
- Maximum platform size 10-50 kg: 400×400 mm
- Maximum platform size 100-500 kg: 800×800 mm
- 4-wire connection (10-50 kg)
- 6-wire connection (100-500 kg)
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 or C5 on request

Model	Nominal load	Price
		excl. of VAT
		ex works
SAUTER	kg	€
CP 100-3P2	100	75,-
CP 150-3P2	150	75,-
CP 200-3P2	200	75,-
CP 300-3P2	300	75,-
CP 400-3P2	400	75,-
CP 500-3P2	500	75,-

Model	Nominal load	Price excl. of VAT
		ex works
SAUTER	kg	€
CP 30-3P7	30	250,-
CP 50-3P7	50	250,-
CP 75-3P7	75	250,-
CP 100-3P7	100	250,-
CP 150-3P7	150	250,-

Model	Nominal load	Price excl. of VAT ex works
SAUTER	kg	€
CP 10-3P9	10	350,-
CP 20-3P9	20	350,-
CP 50-3P9	50	350,-
CP 100-3P9	100	530,-
CP 200-3P9	200	530,-
CP 300-3P9	300	530,-
CP 400-3P9	400	530,-
CP 500-3P9	500	530,-

Tip

Tip Further details and technical data sheet as well as extensive accessories can be found at www.kern-sohn.com









Fig. shows accessories, load corner SAUTER CE Q42901, for further accessories please visit our online shop

CR Q1

Load cells made of stainless steel





- Accuracy in accordance with OIML R60 C1
- · RoHS compliant
- Dust and spray protection to IP68 (in accordance with EN 60529), hermetically encapsulated
- · Stainless steel
- Area of application: Weight measurement as well as compressive force
- Suitable for vehicle scales, weigh hoppers, vehicle testing equipment, test benches
- Nominal sensitivity: 2 mV/V

CR P1

Load cells made of stainless steel





- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Dust and spray protection to IP68 (in accordance with EN 60529), hermetically encapsulated
- · Stainless steel
- Area of application: Weight measurement as well as compressive force
- Suitable for truck scales, suspended scales, silo scales and other diverse scales, test benches, etc.
- Nominal sensitivity: 1-2 mV/V

Accessories CR Q1:

- II Load corner, steel, galvanised, suitable for CR Q1 with nominal load ≤ 10 t, SAUTER CE Q42901, € 245,-
- Load corner, steel, galvanised, suitable for CR Q1 with nominal load ≥ 20 t, SAUTER CE Q42902, € 390,-
- Load corner, steel, rustproof, suitable for CR Q1 with nominal load ≤ 10 t, SAUTER CE RQ42901, € 440,-
- Load corner, steel, rustproof, suitable for CR Q1 with nominal load ≥ 20 t, SAUTER CE RQ42902, € 750,-

Accessories CR P1:

- Load corner for CR 1000-3P1, CR 250-3P1, CR 500-3P1 Steel, incl. pressure piece, SAUTER CE P244011, € 550,-
- Pressure piece for CR 1000-3P1, CR 250-3P1, CR 500-3P1 steel, SAUTER CE P244012, € 105,-
- Load corner for CR 2000-3P1 steel, rustproof, incl. pressure piece,
 SAUTER CE P244021, € 660,-
- Pressure piece for CR 2000-3P1 steel, rustproof SAUTER CE P244022, € 115,-

Model	Nominal load	Price excl. of VAT ex works
SAUTER		€
CR 2500-1Q1	2,5 t/25 kN	265,-
CR 5000-1Q1	5 t/50 kN	265,-
CR 10000-1Q1	10 t/100 kN	265,-
CR 20000-1Q1	20 t/200 kN	520,-
CR 30000-1Q1	30 t/300 kN	520,-

^{**} up to max. 25 t/250 kN

Model SAUTER	Nominal load	Price excl. of VAT ex works €
CR 60-3P1	60 kg/0,6 kN	860,-
CR 130-3P1	130 kg/1,3 kN	900,-
CR 250-3P1	250 kg/2,5 kN	830,-
CR 500-3P1	500 kg/5 kN	790,-
CR 1000-3P1	1000 kg/10 kN	790,-
CR 2000-3P1	2000 kg/20 kN	790,-

^{*} up to max. 500 kg/5 kN









Fig. shows accessories, base plate SAUTER CE Q30903 and bearings SAUTER CE Q30904, for further accessories please visit our online shop



Fig. shows optional accessory load corner 3 SAUTER CE P4022

CB Q1 · CB Q2

Bending beam and shear beam measuring cells made from stainless steelc

STANDARD 444







- · Accuracy in accordance with OIML R60 C3
- · CE and RoHS compliant
- Dust and spray protection to IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- · Stainless steel
- Area of application: Weight measurement as well as compressive force in harsh environments
- · Suitable for platform scales, weigh hoppers, floor scales and other weighing devices
- · 4-wire connection

13

- · Nominal sensitivity: 2 mV/V
- · Note: Accuracy class OIML R60 C6 or EX version on request

CB P1

Measuring cells made from stainless steel

STANDARD





- Accuracy in accordance with OIML R60 C3
- · CE and RoHS compliant
- · Dust and spray protection to IP67 (in accordance with EN 60529), hermetically encapsulated
- · Nickel-plated steel
- Area of application: Weight measurement as well as compressive force in harsh environments
- · Suitable for platform scales, silo scales, bed scales and other diverse scales
- · 4-wire connection
- · Nominal sensitivity: 3 mV/V

Accessories CB Q1 · CB Q2:

- · Traction device, steel, galvanised, suitable for CB Q1, SAUTER CE Q30901, € 75,-
- · Traction device, steel, rustproof, suitable for CB Q2, SAUTER CE Q34905, € 80,-
- II Base plate, steel, galvanised, suitable for CB Q1, SAUTER CE Q30903, € 90,-
- · Base plate, steel, rustproof, suitable for CB Q1, SAUTER CE RQ30903, € 175,-
- · Base plate, steel, rustproof, suitable for CB Q2, SAUTER CE Q34903, € 85,-
- 2 Bearing, steel, rustproof, suitable for CB Q1 (nominal load 5 kg-50 kg), SAUTER CE Q30904, € 110,-
- · Bearing, steel, rustproof, suitable for CB Q1 (nominal load 75 kg-300 kg), SAUTER CE Q30905, € 110,-
- · Bearing, steel, rustproof, suitable for CB 500-3Q1, SAUTER CE Q30906, € 190,-
- · Bearing, steel, rustproof, suitable for CB 750-3Q2, CB 1000-3Q2, CB 1500-3Q2, SAUTER CE Q34906, € 175,-
- · Load corner, steel, galvanised, suitable for CB Q1, SAUTER CE Q30907, € 205,-
- · Load corner, steel, rustproof, suitable for CB Q1, SAUTER CE RQ30907, € 290,-
- Adjustable foot, steel, rustproof, suitable for SAUTER CE Q34901, € 65,-

Model	Nominal load	Price
		excl. of VAT
		ex works
SAUTER	kg	€
CB 100-3P1	100	105,-
CB 250-3P1	250	105,-

Accessories CB P1:

- · Adjustable foot, steel, nickel-plated, load base M12 for CT 500-3P1, CT 1000-3P1 and CT 1500-3P1, SAUTER CE P2012, € 25,-
- 3 Load corner, steel, nickel-plated for CT 500-3P1, CT 1000-3P1 and CT 1500-3P1, SAUTER CE P4022, € 180,-
- Spacer plates for bending beam CB P1 made from steel, SAUTER CE P3012, € 8,-

up to max. 500 kg



Model Nominal load Price excl. of VAT ex works **SAUTER** kg € CB 5-3Q1 210,-5 CB 10-3Q1 10 210,-CB 20-3Q1 20 210,-CB 30-3Q1 30 210,-CB 50-3Q1 50 210,-CB 75-3Q1 75 210,-CB 100-3Q1 100 210,-CB 150-3Q1 150 210,-CB 200-3Q1 210,-200 CB 250-3Q1 250 210,-CB 300-3Q1 300 210.-CB 500-3Q1 500 210, CB 750-3Q2 750 220,-CB 1000-3Q2 1000 220.-CB 1500-3Q2 1500 220,







Fig. shows optional accessory load corner 1 SAUTER CE RQ35903



Fig. shows optional accessory load corner 2 SAUTER CE P4022

CT Q1

STANDARD

Shear beam made from stainless steel

DAKKS ISO

- IP 68 IP 69K 1 DAY
- · Accuracy in accordance with OIML R60 C3
- · CE and RoHS compliant
- Dust and spray protection to IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- · Stainless steel
- Area of application: Weight measurement as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 6-wire connection

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СТ

CT

- · Nominal sensitivity: 2 mV/V
- Note: EX version on request

CT P1 · CT P2

Measuring cells made from stainless steel





- · Accuracy in accordance with OIML R60 C3
- · CE and RoHS compliant
- Dust and spray protection to IP67 (in accordance with EN 60529), welded to create a hermetic seal
- · Nickel-plated steel
- Area of application: Weight measurement as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 4-wire connection
- · Nominal sensitivity: 3 mV/V
- Note: EX version, 6-wire connection and accuracy class C4 or C5 on request
- CT P2: Delivery with calibrated characteristic value, if several cells are ordered, this means significantly less effort when aligning the corners of a platform

odel	Nominal load	Price	Model
		excl. of VAT	
		ex works	
UTER	kg	€	SAUTER
300-3Q1	300	205,-	CT 500-3
500-3Q1	500	205,-	CT 1000
750-3Q1	750	205,-	CT 1500
1000-3Q1	1000	205,-	CT 2500
1500-3Q1	1500	205,-	CT 3000
2000-3Q1	2000	205,-	CT 5000
3000-3Q1	3000	400,-	CT 1000
5000-3Q1	5000	400,-	CT 500-3
7500-3Q1	7500	530,-	CT 1000
10000-3Q1	10000	530,-	CT 3000
n to may 500 kg	σ	•	CT 5000

^{*} up to max. 500 kg

Model	Nominal load	Price excl. of VAT ex works
SAUTER	kg	€
CT 500-3P1	500	90,-
CT 1000-3P1	1000	90,-
CT 1500-3P1	1500	90,-
CT 2500-3P1	2500	110,-
CT 3000-3P1	3000	110,-
CT 5000-3P1	5000	110,-
CT 10000-3P1	10000	160,-
CT 500-3P2	500	95,-
CT 1000-3P2	1000	95,-
CT 3000-3P2	3000	115,-
CT 5000-3P2	5000	115,-
CT 10000-3P2	10000	165,-

^{*} up to max. 500 kg

Accessories CT Q1:

- Base plate, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35911, € 185,-
- Base plate, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35912, € 185,-
- Base plate, steel, rustproof, suitable for CT 7500-3Q1, CT 10000-3Q1, SAUTER CE RQ35919, € 790,-
- Bearing, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35909, € 150,-
- Bearing, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35910, € 295,-
- Bearing, steel, rustproof, suitable for CT 7500-3Q1, CT 10000-3Q1, SAUTER CE RQ35918, € 360,-
- Load corner, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35902, € 390,-
- Load corner, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35903, € 570,-

Accessories CT P1:

- Load corner, steel, rustproof, suitable for CT 10000-3P1, CT 10000-3P2, SAUTER CE P40210, € 470,-
- 2 Load corner, steel, nickel-plated, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P4022, € 180,-
- Load corner, steel, nickel-plated, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P4025, € 240,-
- Adjustable foot, steel, rustproof, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P2012, € 25,-
- Adjustable foot, steel, rustproof, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P2018, € 35,-
- Adjustable foot, steel, rustproof, suitable for CT 10000-3P1, SAUTER CE P2024, € 105,-
- Spacer plate for CT 500-3P1, CT 500-3P2, CT 1000-3P1, CT 1000-3P2 and CT 1500-3P1, SAUTER CE P3012, € 8,-
- Spacer plate for CT 2500-3P1, CT 3000-3P1, CT 3000-3P2, CT 5000-3P1 and CT 5000-3P2 SAUTER CE P3015, € 8,-
- Spacer plate for CT 10000-3P1 and
 CT 10000-3P2 SAUTER CE P30110, € 25,-











CO Y1

Miniature button-type measuring cells made of stainless steel

STANDARD



- · Accuracy in accordance with OIML G5
- High precision (comprehensive Error 0,05 % F.S.)
- RoHS compliant
- · Scope of application: compressive force applications
- · Suitable for Weight measurement as well as force and force test benches
- Nominal sensitivity: 1.0 1.5 mV/V

CO Y2

Miniature button-type measuring cells made of stainless steel





- · Accuracy in accordance with OIML G5
- High precision (comprehensive Error 0,05 % F.S.)
- RoHS compliant
- Scope of application: for tensile and compressive force measurement
- · Suitable for Weight measurement as well as force and force test benches
- Nominal sensitivity: 1,5 2 mV/V, depending on nominal load

CO Y5

Tension and compression load cells made of stainless steal





not CO 0.5-Y5

- · Accuracy in accordance with OIML R60 G1
- · CE and RoHS compliant
- · Dust and spray protection to IP66 (in accordance with EN 60529)
- · Stainless steel
- · Very low profile
- · Suitable for test stands, force measuring devices, Automation systems, etc.
- 4-wire connection
- Nominal sensitivity:

CO 0.5-Y5, CO 1-Y5: 1 mV/V CO 5-Y5, CO 10-Y5: 2 mV/V

Model	Nominal load	Price excl. of VAT ex works
SAUTER		ex works €
CO 10-Y1	10 kg/100 N	155,-
CO 20-Y1	20 kg/200 N	155,-
CO 50-Y1	50 kg/500 N	155,-
CO 100-Y1	100 kg/1 kN	155,-
CO 200-Y1	200 kg/2 kN	155,-
CO 500-Y1	500 kg/5 kN	180,-
CO 1000-Y1	1000 kg/10 kN	180,-
CO 2000-Y1	2000 kg/20 kN	205

^{**} up to 500 kg/5 kN

Model	Nominal load	Price excl. of VAT ex works
SAUTER		€
CO 10-Y2	10 kg/100 N	220,-
CO 20-Y2	20 kg/200 N	220,-
CO 50-Y2	50 kg/500 N	220,-
CO 100-Y2	100 kg/1 kN	275,-
CO 200-Y2	200 kg/2 kN	275,-
CO 500-Y2	500 kg/5 kN	275,-
CO 1000-Y2	1000 kg/10 kN	275,-
CO 2000-Y2	2000 kg/20 kN	300,-

^{**} up to 500 kg/5 kN

Model SAUTER	Nominal load	Price excl. of VAT ex works €
CO 0.5-Y5	0,5 kg/5 N	320,-
CO 1-Y5	1 kg/10 N	320,-
CO 5-Y5	5 kg/50 N	320,-
CO 10-Y5	10 kg/100 N	320,-







CJ P

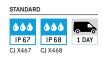
Junctionbox CJ P for connecting several measuring cells to one evaluation unit



- Prepared for 4-wire and 6-wire measuring cells
- Models available for 2, 4, 6 or 8 load cells
- · Robust aluminium die-cast housing
- · Protection against dust and spray

CJ X

Junctionbox for connecting several measuring cells to one evaluation unit



- Prepared for 4-wire and 6-wire measuring cells
- Models available for 4 load cells

CJ X467:

 Robust stainless steel housing with protection against dust and water splashes IP67

CJ X468:

 Robust aluminium die-cast housing with protection against dust and water splashes IP68

Model	Number of connections	Price excl. of VAT
		ex works
SAUTER		€
CJ P2	2	80,-
CJ P4	4	80,-
CJ P4PG	4	90,-
CJ P6	6	100,-
CI P8	8	100

Model SAUTER	Number of connections	Price excl. of VAT ex works €
CJ X467	4	190,-
CJ X468	4	110,-

KERN VHB Page 147

- > The power package in the dispatch department and warehouse
- > The display device is well-protected by a metal frame
- > Due to the optimized loads rollers it is easier to get over rough ground



Pallet truck scales

Weighing and transporting - just one operation

Speed up your warehouse and dispatch processes with the KERN pallet truck scales.

Get the exact weight of a load and at the same time, transport it to a specific location, all in one operation. This reduces commissioning times and avoids queues in front of fixed floor scales.

These mobile weighing solutions are space-saving and deliver reliable weighing results. Differences between given and actual weights can be determined quickly e.g. in the goods-in and out department. This uncovers inaccurate quantities, saves time and money and therefore ensures a very short amortisation period of the scales original cost.

KERN pallet truck scales are of robust industrial quality, with high-level protection against dust and water splashes, with high-contrast, easy-to-read displays as well as solid wheels and load rollers – all this helps to give you practical support in your work – day after day.

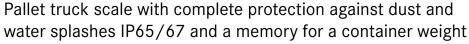
Of course, all KERN pallet truck scales can also be calibrated and delivered with a DAkkS calibration certificate (optional). This ensures the high level of accuracy of your pallet truck scale.

Quick-Finder Pallet truck scales

Readability [d]	Weighing capacity [Max]	Model	Page	DAYS	CAL EXT	SUM	å å å	BATT	ACCU
kg	kg	KERN			For an expl	anation on t	he pictos, s	ee front flap	
1	2000	VHB 2T1	147	2	•	•	•	•	







Features

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Display device: plastic, protection against dust and water splashes IP65
- 2 Load fork: Protection against dust and water splashes IP67, temporary use in wet areas possible
- \bullet Pivot range 206°
- Castors: Solid rubber on aluminium rims
- S Load rollers: Tandem tyres to overcome thresholds and obstacles more easily
- Totalising of weights
- Ready for use: Batteries included,
 4×1.5 V AA, operating time up to 80 h

Technical data

- Large LCD display, digit height 28 mm
- Permissible ambient temperature -10 $^{\circ}\text{C}/40~^{\circ}\text{C}$

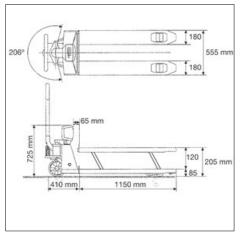
Accessories

OPTION

 Castors made of red polyurethane on aluminium rims. Ideal for light-coloured flooring as they leave less visible abrasive marks. Suitable for the current models of the pallet truck scale range KERN VHB (when retrofitting, please give the serial number of the pallet truck scale available when ordering), scope of delivery: 1 item, KERN VHB-A02







■ Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping



Model	Weighing capacity	Readability	Net weight	Option
				DAkkS Calibr. Certificate
	[Max]	[d]	approx.	DAkkS
KERN	kg	kg	kg	KERN
VHB 2T1	2000	1	110	963-131

KERN HFD Page 159/160

- > Triple-range scale: Ideal, when high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that three balances can be replaced with one – which saves space and money!
- Also available with high protection type IP67!
- Also EC type approval as version with calibration approval!



Hanging scales/Crane scales

TÜV-tested safety

KERN puts great emphasis on safety. For your safety, all KERN hanging and crane scales are subject to a stringent load test in accordance with EN 13155 and (Non-fixed load lifting attachments/breakage resistance) and EN 61010-1 (Electrical safety).

As well as the classic crane scales, we also have electronic tensile dynamometers which are extremely versatile thanks to their stable, compact construction. They can, for example, be fitted into testing machines, used for checking for overload, for bracing and tensile force measurement, etc.

This type of device is ideally suited for use between shackles or with a test bench. This is where the benefit of this construction comes to the fore, as the tensile force can be applied in both directions. These compact crane scales are also particularly suitable when weighing suspended loads where space is tight.

At the core of this construction is a robust load cell. Through the absence of moving parts, these scales are practical in maintenance and wear free.

Note

DAkkS calibration and conformity evaluation for crane scales up to 12 t



Do you use your crane scales in ISO-certified processes or where verification is mandatory? Then we can produce the right calibration certificate or the relevant Declaration of Conformity for your measuring device. Thanks to a modern crane scale test unit, we can calibrate or verify crane scales and force-measuring devices from any manufacturer to a maximum load of up to 12 t or 120 kN. You can find all the important details on pages 206, 211 or directly from one of our test service specialists, we will be pleased to help you.

Quick-Finder Hanging scales/Crane scales

Readability	Weighing capacity	Model	Page	DAYE	M	CALEXT	8	^ -	444	DATE	ACCII
[d]	[Max]	KERN		DAYS	Eara	CAL EXT	BT etion on t	he nictos	, see fron	t flan	ACCU
0 005	kg 5	HDB 5K5N	150	- 1	roi a		בנוטוו טוו נ	ile bictos	, see mon		
0,005			152	1		•		•		•	
0,005	6	HDB 6K-3XL	153 152	1		•		•			
0,01	10 15	HDB 10K10N HDB 10K-2XL	152	1		•	-	•			
0,01	20	HCB 20K10	153	1		•		•			
0,01	50	HGA 50K-2S05	150	1		•					
0,02	15	CH 15K20	150	1		•		•			
0,02	30	HDB 30K-2XL	153	1		•		•			
0,02	50	HCB 50K20	154	1		•		•			
0,02	60	HCD 60K-2	156	1		•					•
0,02 0,05	60 150	HCD 100K-2D	156	1		•					
0,02 0,03	50	CH 50K50	150	1		•		•			
0,05	99	HCB 99K50	151	1		•		•			
0,05	150	HCD 100K-2	156	1		•					•
0,05 0,1	150 300	HCD 300K-2D	156	1		•					
0,05 0,1 0,2	150 300 600	HFD 600K-1	150	1		•	0				•
0,05 0,1 0,2	150 300 600	HFD 600K-1IP	159	1		•	0		•		•
0,03 0,1 0,2	50	CH 50K100	151	1		•		•			
0,1	50	HCB 50K100	154	1	-	•		•			
0,1	50	HCN 50K100IP	155	1		•		•	•		
0,1	200	HCB 200K100	154	1		•	-	•			
0,1	300	HCD 300K-1	156	1		•	-				•
0,1	1000	HFM 1T0.1	161	1		•	-				
0,1 0,2 0,5	300 600 1500	HFD 1T-4	159	1		•	0				
0,1 0,2 0,5	300 600 1500	HFD 1T-4IP	159	1		•	0		•		
0,1 0,2 0,3	100	HCB 100K200	154	1		•		•			
0,2	100	HCN 100K200IP	155	1		•		•	•		
0,2	600	HFA 600K-1	157	1		•					•
0,2	600	HFC 600K-1	158	1		•					
0,2	600	HFD 600K-1M	159	1	0	•	0				
0,2 0,5 1	600 1500 3000	HFD 3T-3	159	1		•	0				
0,2 0,5 1	600 1500 3000	HFD 3T-3IP	159	1		•	0		•		
0,5	200	HCB 200K500	154	1		•		•		•	Ť
0,5	200	HCN 200K500IP	155	1		•		•	•		
0,5	1000	HFA 1T-4	157	1		•					0
0,5	1000	HFC 1T-4	158	1		•					
0,5	1500	HFD 1T-4M	159	1	0	•	0				•
0,5	3000	HFM 3T0.5	161	1		•					
0,5	5000	HFM 5T0.5	161	1		•					
0,5 1 2	1500 3000 6000	HFD 6T-3	159	1		•	0				
0,5 1 2	1500 3000 6000		159	1		•	0				
1	500	HCB 0.5T-3	154	1		•		•		•	
1	3000	HFA 3T-3	157	1		•					•
1	3000	HFC 3T-3	158	1		•				•	•
1	3000	HFD 3T-3M	159	1	0	•	0				
1	10000	HFM 10T1	161	2**		•					•
1 2 5	3000 6000 12000	HFD 10T-3	159	1		•	0				•
1 2 5	3000 6000 12000	HFD 10T-3IP	159	1		•	0		•		•
2	1000	HCB 1T-3	154	<u>·</u> 1		•		•		•	
2	5000	HFA 5T-3	157	1		•		-			
2	5000	HFC 5T-3	158	1		•					
2	6000	HFD 6T-3M	159	1	0	•	0				
5	10000	HFA 10T-3	157	1		•				•	
5	10000	HFC 10T-3	158	1		•	-				
	10000	0 101 0	100								

^{**} Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

^{● =} standard O = option









Ultra compact, digital luggage scale for fast weighing of luggage and other suspended loads

Features

- This ergonomically-optimised luggage scale is perfectly suited for rapid, accurate checking of cases, bags, sports baggage, etc. The high maximum load means that there is sufficient safety reserve and can therefore also be used for weighing other, suspended loads
- II Ergonomic design for easy handling
- Robust nylon fabric tape for secure fixing of the item to be weighed
- Simple and convenient 1-key operation
- Easy to toggle between units at the press of
- · High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- · Automatic Hold function: When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" for 10 sec. This leaves suffcient time to read the weight in peace

Technical data

- · LCD display, digit height 9 mm
- Ready for use: Batteries included, 3V CR2032, operating time up to 20 h, AUTO-OFF function to preserve the battery, Battery level indicator on display
- Note: The models are only delivered in a set of 5 units. i.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance













Model	Weighing capacity	Readability	Dimensions housing	Net weight/ balance	Quantity delivered	Option DAkkS Calibr. Ce	rtificate	Quantity delivered
KERN	[Max] kg	[d] g	W×D×H mm	approx. kg	(balances)	DAkkS KERN	- tillouto	(DAkkS Calibr. Certificate)
HGA 50K-2S05	50	10	150×31×35	0,4	5	963-128H		1







The classic among manual hanging scales - perfect for rapid weighing of higher loads

Features

- II With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- · Ideal for rapid control in goods-in and goods-out
- · Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- · Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold)
- · Hook, steel

Technical data

- · LCD display, digit height 11 mm
- 2 Tape measure, extractable, length approx. 100 cm
- Ready for use: Batteries included, 9 V block, operating time up to 20 h
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

• I Tare pan with pan beam, details see Accessories, KERN CH-A01N















Model	Weighing capacity	Readability	Dimensions housing W×D×H	Net weight	Option DAkkS Calibr. Certificate
KERN	[Max]	[d]	mm	approx.	DAkkS
	kg	8		kg	KERN
CH 15K20	15	20	90×30×176,5	0,35	963-128H
CH 50K50	50	50	90×30×176,5	0,35	963-128H
CH 50K100	50	100	90×30×176,5	0,35	963-128H







Practical hanging scale for rapid, mobile weighing

Features

- II With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ breakage resistance) and EN 61010-1 (Electrical safety)
- · Ideal for rapid control in goods-in and goods-out
- · Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- · Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- · Hook, steel, can be hinged
- Peak load display (peak hold)

Technical data

- LCD display, digit height 12 mm
- Ready for use: Batteries included, 2×1.5 V AAA, operating time up to 180 h
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

• 2 Tare pan with pan beam, details see Accessories, KERN CH-A01N

















D.	Akl	kS
+	3 DA	YS

Model	Weighing capacity	Readability	Dimensions housing	Net weight	Option
			W×D×H		DAkkS Calibr. Certificate
	[Max]	[d]		approx.	DAkkS
KERN	kg	g	mm	kg	KERN
HDB 5K5N	5	5	72×25×105	0,20	963-127H
HDB 10K10N	10	10	72×25×105	0,20	963-128H







User-friendly hanging scale for rapid, mobile weighing

Features

- The larger design creates space for a large handle, which enables even better handling especially with heavier loads
- With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold)
- · Hook, steel, can be hinged

Technical data

- · LCD display, digit height 12 mm
- Ready for use: Batteries included, 2×1.5 V AAA, operating time up to 180 h
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

 Tare pan with pan beam, details see Accessories, KERN CH-A01N















Model	Weighing capacity	Readability	Dimensions housing W×D×H	Net weight	Option
KERN	[Max] kg	[d] g	mm	approx. kg	DAkkS Calibr. Certificate DAkkS KERN
HDB 6K-3XL	6	5	107×25×101	0,20	963-128H
HDB 10K-2XL	15	10	107×25×101	0,20	963-128H
HDB 30K-2XL	30	20	107×25×101	0,20	963-128H











Handy hanging scale for higher loads

Features

- II With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ breakage resistance) and EN 61010-1 (Electrical safety)
- · Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- · Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold), Measuring frequency 5 Hz
- [Max] ≤ 200 kg: Snap link (stainless steel) with safety catch, as standard
- [Max] ≤ 200 kg: Hook (stainless steel) as standard

 ■ [Max] ≥ 0,5 t: Reinforced version for heavy loads. Snap link and Hook not included

Technical data

- LCD display, digit height 12 mm
- · Hole diameter of load support, model with $[Max] \le 200 \text{ kg: approx. } 14 \text{ mm}$ [Max] > 200 kg: approx. 16 mm
- Ready for use: Batteries included, 3×1.5 V AA, operating time up to 300 h

Accessories

for models with [Max] ≤ 20 kg

· Tare pan with pan beam, details see Accessories, KERN CH-A01N

for models with [Max] ≥ 100 kg

• 3 Hook with safety catch, cast steel, galvanised and lacquered, revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, KERN YHA-06

for models with [Max] ≤ 200 kg

- · Snap link (stainless steel) with safety catch, standard, opening approx. 15 mm, KERN HCB-A01
- · Hook (stainless steel), standard, opening approx. 25 mm, KERN HCB-A02

for models with [Max] ≥ 0,5 t

 High-strength shackle, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models KERN HCB with $[Max] \ge 0.5 t$, KERN YSC-04

















Model	Weighing capacity	Readability	Dimensions housing	Net weight	Option
			W×D×H		DAkkS Calibr. Certificate
	[Max]	[d]		approx.	DAkkS
KERN	kg	g	mm	kg	KERN
HCB 20K10	20	10	82×43×153	0,30	963-128H
HCB 50K20	50	20	82×43×153	0,30	963-128H
HCB 50K100	50	100	82×43×153	0,30	963-128H
HCB 99K50	99	50	82×43×153	0,30	963-129H
HCB 100K200	100	200	82×43×153	0,30	963-129H
HCB 200K100	200	100	82×43×153	0,30	963-129H
HCB 200K500	200	500	82×43×153	0,30	963-129H
HCB 0.5T-3	500	1000	82×43×153	0,40	963-130H
HCB 1T-3	1000	2000	82×43×153	0,40	963-130H









Robust, compact hanging scale with high level of protection against dust and water spray

Features

- With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Housing stainless Steel, IP65-protected against dust and water splashes
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold), measuring frequency 5 Hz
- Snap link (stainless steel) with safety catch, as standard
- · Hook (stainless steel) as standard

Technical data

- · LCD display, digit height 12 mm
- Hole diameter of load support, model with [Max] ≤ 200 kg: approx. 14 mm [Max] > 200 kg: approx. 16 mm
- 2 Second display on the rear of the balance
- Ready for use: Batteries included, 2×1.5 V AA, operating time up to 200 h

Accessories

for models with [Max] ≥ 100 kg

- Il Hook with safety catch, cast steel, galvanised and lacquered, revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, KERN YHA-06
- Snap link (stainless steel) with safety catch, standard, opening approx. 15 mm, KERN HCB-A01
- Hook (stainless steel), opening approx.
 25 mm, KERN HCB-A02











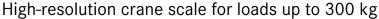






Model	Weighing capacity	Readability	Dimensions housing W×D×H	Net weight	Option DAkkS Calibr. Certificate
KERN	[Max] kg	[d] g	mm	approx. kg	DAkkS KERN
HCN 50K100IP	50	100	96×48×179	0,50	963-128H
HCN 100K200IP	100	200	96×48×179	0,50	963-129H
HCN 200K500IP	200	500	96×48×179	0,50	963-129H



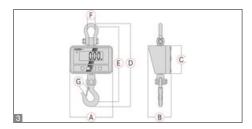












Features

- Fully-equipped crane scale for low to medium load ranges. The solid design guarantees that extra level of safety (TÜV tested). Thanks to the large LCD display and the remote control which is delivered as standard, it can also be operated safely from a distance and results can be read off
- With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- · High level of mobility: thanks to battery pack operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department, etc.)
- · Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key

- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- Battery level indicator, LED visual display
- · Large high-contrast display that is easy to read
- Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a key
- · Hook with safety catch, revolving
- · Shackle and safety catch made of nickel-plated steel
- 2 Infrared remote control standard. Range up to 20 m. All functions can be selected. W×D×H 65×24×100 mm. Batteries included

Technical data

- · Backlit LCD display digit height 28 mm
- Ready for use: Batteries included, 4×1.5 V AA, operating time up to 100 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 5 °C/40 °C

Accessories

 Internal rechargeable battery pack for Load lifting attachments, operating time up to 50 h without backlight, charging time approx. 12 h, KERN HCD-A01















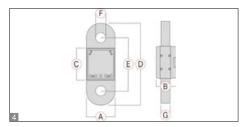
Model	Weighing	Readability	Net weight			3	Dimensio	ns				Option	
	capacity											DAkkS Calibr. Ce	rtificate
	[Max]	[d]	approx.	Α	В	С	D	Е	F	G		DAkkS	
KERN	kg	g	kg	mm	mm	mm	mm	mm	mm	mm		KERN	
HCD 60K-2	60	20	1,10	150	79	97	276	250	26	18		963-129H	
HCD 100K-2	150	50	1,10	150	79	97	276	250	26	18		963-129H	
HCD 300K-1	300	100	1,10	150	79	97	276	250	26	18		963-129H	
	Du	al-range bala	nce switches	automat	ically to th	ne next lar	gest weig	hing capa	city [Max]	and read	ibility [d]		
HCD 100K-2D	60 150	20 50	1,10	150	79	97	276	250	26	18		963-129H	
HCD 300K-2D	150 300	50 100	1,10	150	79	97	276	250	26	18		963-129H	











Compact crane scale with integrated display can also be used for tensile force measurement

Features

- II With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
- · Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- · Ideally suited for determining weight quickly while loading and unloading
- Peak load display (peak hold)
- · Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed STANDARD

Technical data

- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with

 $[Max] \le 3 t$: aluminium/stainless steel bearing [Max] > 3 t: steel/steel

- · Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 12 h
- Optional battery operation, 3×1.5 V AA not included in scope of delivery, operating time up to 40 h
- Precision: 0,2 % of [Max]
- · Measuring frequency 60 Hz
- · Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

- 2 High-strength shackle, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models with
 - $[Max] \le 5 t$: KERN YSC-01
 - [Max] > 5 t: KERN YSC-02
- In the safety catch, cast steel, galvanised and lacquered, non-revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, suitable for models with

 $[Max] \le 1 \text{ t: KERN YHA-01}$

[Max] = 3 t: KERN YHA-02

[Max] = 5 t: KERN YHA-03

[Max] > 5 t: KERN YHA-04

OPTION



















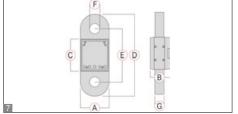
Model	Weighing capacity	Readability	Net weight			4	Dimens	ions			Option	
											DAkkS Calibr. Ce	rtificate
	[Max]	[d]	approx.	Α	В	С	D	E	F	G	DAkkS	
KERN	kg	g	kg	mm	mm	mm	mm	mm	mm	mm	KERN	
HFA 600K-1	600	200	1,8	90	62	100	255	165	32	30	963-130H	
HFA 1T-4	1000	500	1,8	90	62	100	255	165	32	30	963-130H	
HFA 3T-3	3000	1000	2,0	90	62	100	255	165	32	30	963-132H	
HFA 5T-3	5000	2000	4,0	90	62	100	255	165	30	30	963-132H	
HFA 10T-3	10000	5000	6	90	72	100	275	185	40	40	963-133H	











Compact crane scale for use in harsh environmental conditions or where space is limited, with convenient hand-held terminal

Features

- II With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- · With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
- · Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- · Peak load display (peak hold)
- · Hold function: When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the Hold key is pressed
- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- 2 Display device with integrated radio module, which the user can carry around with him, thanks to the convenient hand strap 3, standard. In this way the weighing data can always be read off the display device by the user, even when the user is a long way from the load receptor (force gauge) or under poor lighting conditions. Range up to 20 m, LCD display, digit height 23 mm, rechargeable battery pack internal, standard. Operating time up to 30 h without backlight, charging time approx. 12 h. Can be reordered, KERN HFC-A01
- Dimensions of display device W×D×H 85×64×256 mm
- · Net weight 0,5 kg

Technical data

- · Large backlit LCD display, digit height 23 mm
- · Material and design of housing/load support, models with

[Max] ≤ 3 t: aluminium/stainless steel bearing [Max] > 3 t: steel/steel

- Optional battery operation, 3×1.5 V AA not included in scope of delivery, operating time up to 40 h
- Precision: 0,2 % of [Max]
- Measuring frequency 10 Hz
- · Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Internal rechargeable battery pack for load support, operating time up to 30 h, without backlight, charging time approx. 12 h
- 5 High-strength shackle, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models with

[Max] ≤ 5t: KERN YSC-01 [Max] > 5t: KERN YSC-02

 In the safety catch, cast steel, galvanised and lacquered, non-revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, suitable for models with

[Max] ≤ 1t: KERN YHA-01

[Max] = 3t: KERN YHA-02 [Max] = 5t: KERN YHA-03

[Max] > 5t: KERN YHA-04



















Model	Weighing capacity	Readability	Net weight			7	Dimensi	ions			Option DAkkS Calibr. Ce	rtificate
	[Max]	[d]	approx.	Α	В	С	D	Е	F	G	DAkkS	
KERN	kg	g	kg	mm	mm	mm	mm	mm	mm	mm	KERN	
HFC 600K-1	600	200	1,8	90	62	100	255	165	32	30	963-130H	
HFC 1T-4	1000	500	1,8	90	62	100	255	165	32	30	963-130H	
HFC 3T-3	3000	1000	2,2	90	62	100	255	165	32	30	963-132H	
HFC 5T-3	5000	2000	4,0	90	62	100	255	165	30	30	963-132H	
HFC 10T-3	10000	5000	6	90	72	100	275	185	40	40	963-133H	





Robust, high-resolution crane scale up to 12 t, now also with EC type approval [M] or protection type IP67



High mobility thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)



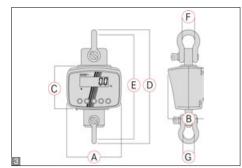
Solid shackles, non-revolving



Radio remote control standard. Range up to 20 m. All functions can be selected. W×D×H 65×24×100 mm. Batteries included, 1× 12 V 23A







Features

- The models with M add-on have EC type approval and because of this they are ideal for use in verified applications such as, for example, calculation of a total price, based on weight
- The models with IP add-on have special spray and dust protection to IP67 and because of this they are ideal for use in harsh environments
- II With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- · Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- · High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- · Hold function: When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the Hold key is pressed
- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed

Technical data

- · Superior display size: digit height 30 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- · Internal rechargeable battery pack, as standard, operating time up to 70 h without back light, charging time approx. 12 h. Battery pack accessible from the outside, which means it is easy to replace
- Precision: 0,2 % of [Max]
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Internal rechargeable battery pack for load support, operating time up to 70 h without backlight, charging time approx. 12 h, KERN HFD-A04
- · Charging station for external battery charging, scope of delivery: charging station, exchangeable battery, mains adapter, KERN HFD-A07
- 2 Hook with safety catch, cast steel, galvanised and lacquered, non-revolving, suitable for

HFD 600, HFD 1T: KERN HFD-A01 HFD 3T: KERN HFD-A02 HFD 6T, HFD 10T: KERN HFD-A03

· Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN HFD-A06























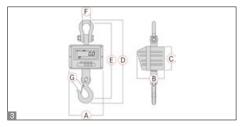
Model	Weighing capacity	Readability	Net		3	Dim	ensio	ns					Option	
			weight								Verifica	tion	DAkkS Calibr. Cert	tificate
	[Max]	[d]	approx.	Α	В	С	D	Е	F = G		MIII		DAkkS	
KERN	kg	g	kg	mm	mm	mm	mm	mm	mm		KERN		KERN	
	Triple range	balance switches autor	natically to	the r	ext la	rgest	weigh	ing ca	apacity	[Max] and re	adibility [d]			
HFD 600K-1	150 300 600	50 100 200	9	194	129	145	421	383	50,8		-		963-130H	
HFD 1T-4	300 600 1500	100 200 500	9	194	129	145	421	383	50,8		-		963-130H	
HFD 3T-3	600 1500 3000	200 500 1000	10	194	129	145	421	383	50,8		-		963-132H	
HFD 6T-3	1500 3000 6000	500 1000 2000	15	194	129	145	477	426	68,3		-		963-132H	
HFD 10T-3	3000 6000 12000	1000 2000 5000	20	194	129	145	573	510	82,5		-		963-133H	
		Protec	tion agains	t dust	and v	vater	splasł	nes IP	67					
HFD 600K-1IP	150 300 600	50 100 200	9	194	129	145	421	383	50,8		-		963-130H	
HFD 1T-4IP	300 600 1500	100 200 500	9	194	129	145	421	383	50,8		-		963-130H	
HFD 3T-3IP	600 1500 3000	200 500 1000	10	194	129	145	421	383	50,8		_		963-132H	
HFD 6T-3IP	1500 3000 6000	500 1000 2000	15	194	129	145	477	426	68,3		-		963-132H	
HFD 10T-3IP	3000 6000 12000	1000 2000 5000	20	194	129	145	573	510	82,5		-		963-133H	
Not	e: For applications that	require verification, plea	se order v	erifica	tion a	t the s	same	time, i	initial v	erification at	a later date	e is not	possible.	
		Verification at the facto	ry, we nee	d to k	now th	ne full	addre	ess of	the loc	cation of use.				
HFD 600K-1M	600	200	9	194	129	145	421	383	50,8		965-130H		963-130H	
HFD 1T-4M	1500	500	9	194	129	145	421	383	50,8		965-130H		963-130H	
HFD 3T-3M	3000	1000	10	194	129	145	421	383	50,8		965-132H		963-132H	
HFD 6T-3M	6000	2000	15	194	129	145	477	426	68,3		965-132H		963-132H	
HFD 10T-3M	12000	5000	20	194	129	145	573	510	82,5		965-133H		963-133H	











Robust industrial crane scale with bright LED display for optimum reading in unfavourable ambient conditions

Features

- II With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Professional device for robust applications in production, quality control, logistics etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- · High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)

- Adaptation to unstable environmental conditions by changing the readability
- Hold function: When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the Hold key is pressed
- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- · Hook with safety catch, revolving
- 2 Radio remote control standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 48×10×95 mm. Batteries included, 2×1.5 V AAA

Technical data

- · Superior display size: digit height 30 mm, bright with high contrast for easy reading of weighing results, even in poor lighting conditions
- · Internal rechargeable battery pack, operating time up to 50 h without backlight, charging time approx. 14 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 0 °C/40 °C



OPTION	
DAkkS	
+3 DAYS	

Model	Weighing	Readability	Net weight			3	Dimensio	ns				
	capacity										DAkkS Calibr. Ce	rtificate
	[Max]	[d]	approx.	Α	В	С	D	E	F	G	DAkkS	
KERN	kg	g	kg	mm	mm	mm	mm	mm	mm	mm	KERN	
HFM 1T0.1	1000	100	14	270	200	175	610	540	68	40	963-130H	
HFM 3T0.5	3000	500	16	270	200	175	610	540	74	40	963-132H	
HFM 5T0.5	5000	500	24	300	230	190	730	650	74	55	963-132H	
HFM 10T1	10000	1000	34	300	230	190	840	750	92	60	963-133H	

Accessories



Printers







Important note for printer orders:

Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

Matrix needle printer KERN 911-013

For printing weighing results on normal paper, which is ideal for long-term archiving.

Matrix needle printer KERN YKN-01

For printing weighing results on normal paper, which is ideal for long-term archiving.

Thermal printer KERN YKB-01N

For printing weighing results, recipes, quantities etc. or for GLP record keeping of balance adjustment with date and time print. GLP/GMP compliant print form available as standard. Language versions: DE, EN, FR.

Technical data

- · Needle print
- Speed: 1,8 line/s
- Max. 40 characters per line
- Width of the paper strip: 57 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU), as standard
- Dimensions housing: W×D×H 100×180×106 mm
- Not suitable for KERN PNS/PNJ, PES/PEJ ranges
- Interface cable not included with delivery, see page 166

Price printer without interface cable, KERN 911-013

Technical data

- Needle print
- · Speed: 1 line/s
- Max. 16 characters per line
- Width of the paper strip: 44 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU/GB/USA), as standard
- Dimensions housing: W×D×H 158×106×40 mm
- Interface cable not included with delivery, see page 166

Price printer without interface cable, KERN YKN-01

Technical data

- Thermal print
- · Speed: 0,75 lines/s
- Max. 40 characters per line
- Width of the paper strip: 112 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU/GB/USA), as standard Dimensions housing:
 W×D×H 165×140×50 mm
- Interface cable not included with delivery, see page 166

Price printer without interface cable, KERN YKB-01N

Accessories

- Paper rolls (10 pcs.), KERN 911-013-010
- Universal mains adapter, standard EU/GB/ US, KERN ABS-A01

Accessories

• Paper rolls (5 pcs.), KERN YKN-A01

Accessories

· Paper rolls (10 pcs.), KERN YKB-A10

Individual header data:

For printers **KERN 911-013**, **YKN-01**, **YKB-01N and YKE-01** (in combination with YKI-02) the free software **KERN SHM-01** (see www.kern-sohn.com) can be used to print 4 header lines on the printout (see marking on balance). Compatible models: KERN 440, DE, FCB, FKB-A, PCB, PCD.

Printers











Important note for printer orders:

Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

Thermal statistics printer **KERN YKS-01**

For printing weighing results, recipes etc. or for GLP record keeping of weighing data with date and time print. Numerator; with statistical functions such as count and total of all measurements, minimum and maximum values of the main unit, range, average value, standard deviation, available units: mg, g, kg, pcs. Language versions: DE, EN, FR.

Thermal label printer **KERN YKE-01**

Affordable universal label printer to print out weighing results on thermal labels. ASCII-capable. Comfortable Auto-Forward function for automatic jump from label to label (only with KERN standard labels).

Technical data

- Thermal print
- · Speed: 0,75 lines/s
- Max. 40 characters per line
- · Width of the paper strip: 112 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU/GB/USA), as standard
- · Dimensions housing: W×D×H 165×140×50 mm
- · Interface cable not included with delivery, see page 166
- · Note: Please order the matching paper roll with it, see accessories
- Not suitable for KERN EWJ, PFB-M ranges as well as KERN moisture analysers and counting scales

Price printer without interface cable, KERN YKS-01

Technical data

- · Thermal print
- · Speed: 22 mm/s
- Max. 82 characters per line
- · Width of the paper strip: YKE-A02: 78 mm
- YKE-A03: 112 mm Operation via mains adapter 230 V/50 Hz

(standard EU/GB/USA), as standard

- · Dimensions housing: W×D×H 150×155×65 mm
- · Interface cable not included with delivery, see page 166
- · Note: Please order the matching label roll with it, see accessories
- · Not suitable for KERN BFS, CCS, CFS, DAB, DBS, DLB, IFS, KFS-TM, RPB ranges, counting scales

Price printer without interface cable, KERN YKE-01

Accessories

· Paper rolls (10 pcs.), KERN YKB-A10

Accessories

· Paper roll (1 pc.), Dimensions labels: W×D 73×61 mm, 100 labels, KERN YKE-A02 W×D 105×48 mm, 45 labels, KERN YKE-A03

Individual header data:

For printers KERN 911-013, YKN-01, YKB-01N and YKE-01 (in combination with YKI-02) the free software KERN SHM-01 (see www.kern-sohn.com) can be used to print 4 header lines on the printout (see marking on balance). Compatible models: KERN 440, DE, FCB, FKB-A, PCB, PCD.

Printers









STANDARD





Important note for printer orders:

Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

Dot matrix printer KERN YKG-01

High-quality dot matrix printer

Flexible and rapid dot matrix printer for retail, the catering trade and for restaurant kitchens. To print the weights on normal paper, which is ideal for long-term archiving. This model has an interchangeable interface and you will be impressed by how easy it is to replace the paper and ribbon

Thermal printer KERN YKH-01

High-quality thermal printer – fast, robust, user-friendly

Robust, low-maintenance dot matrix printer for retail, the catering trade and for restaurant kitchens. Extremely compact and long-lasting. Thanks to the waterproof switch cover it is particularly suitable for use under tough, loud environmental conditions

Technical data

- Needle print
- · Speed: 4,7 line/s
- Max. 42 characters per line
- Supported paper widths:
 58 mm, 70 mm, 76 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232, cash drawer connection, bidirectional parallel
- Interface cable not included with delivery, see page 166
- Dimensions housing B×T×H 160×248×139 mm
- Not suitable for KERN DAB, DBS, DLB, FKT, RFE ranges

Technical data

- Thermal print
- · Speed: 2 line/s
- Max 64 characters per line
- Supported paper widths: 58 mm, 80 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232
- Interface cable not included with delivery, see page 166
- Dimensions housing B×T×H 140×199×146 mm
- Not suitable for KERN DAB, DBS, DLB, FKT, RFE ranges

Price printer without interface cable, KERN YKG-01

Price printer without interface cable, KERN YKH-01

Accessories

• Paper rolls (5 pcs.), KERN YKG-A01

Accessories

• Paper rolls (5 pcs.), KERN YKH-A01

Individual header data:

For printers **KERN 911-013**, **YKN-01**, **YKB-01N and YKE-01** (in combination with YKI-02) the free software **KERN SHM-01** (see www.kern-sohn.com) can be used to print 4 header lines on the printout (see marking on balance). Compatible models: KERN 440, DE, FCB, FKB-A, PCB, PCD.

Interface cable for RS-232

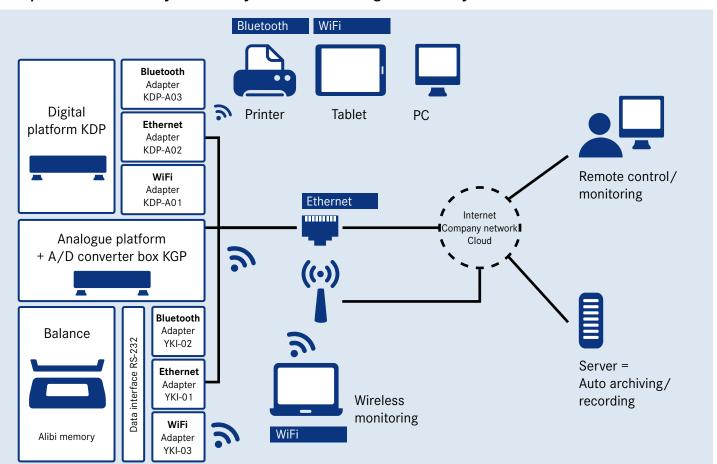


For direct connection to a printer or PC, cable length approx. 1.5 m. The interface parameters can be set using the balance keypad.

The interface cable is **free of charge** if you purchase balance, printer or Ethernet-/WiFi-/Bluetooth adapter together.

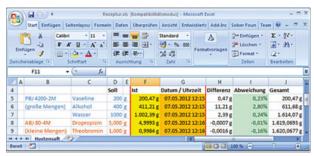
Printer,	PC, YKI-01/	911-013, YKB-01N,	YKE-01	YKG-01, YKH-01	YKS-01		
Balance ▼	-02/-03 KERN	YKN-01 KERN	KERN	KERN	KERN		
440, 572, 573, ALJ-AM, ALS-A, ALT-B, CDS, CKE, DE-D, DS, EMB-V, FCB, FKA, FKB, FKC, FKB-A, IKT, KB, PCB, PCD, PLJ-A, PLJ-F, PLS-A, PLS-F, PLE, PLT, KDP			572-926				
BAN, BKN, BXS, IXS, KXS-TM, SXS		KXS-A	04 (Factory	Option)			
EOC, IOC, BID, KIB-T, KIB-TM			EOC-A12				
YKV-01, KGP	572-926			_			
ABJ-NM, ABS-N			ACS-A01				
BFA, BFB, BFN (until year of construction 2019), GAB-N, GAB-P, GAT, IFB, KFB-TM, KFN-TM, NFB, NFN (until year of construction 2019) PFB, SFB, UFA, UFB, UFC, UFN	CFS-A01						
BFS, CPB, EWJ, KFS-TM, IFT, PFB, PFB-M		CFS	S-A01		_		
CFS, CCS, KFS-TM, IFS (from year of production 2015)	-	CFS-A01	_	_	-		
ABT-NM, PBJ, PBS			770-926				
DBS, DLB	572	-926	_	_	_		
DAB	MLB	3-A05	MLB-A05	_	MLB-A05		
ABP, KFS-T		MLE	3-A05		_		
ADB, ADJ, ACS, ACJ, PNS/PNJ			MLB-A05				
HFT			KFF-A01				
EG-N, EW-N			474-926				
PES/PEJ (Interface cable for printer YKB-01: MLB-A05)	1						
CCA			CCA-A01	T			
RFE, RPB (not compatible with YKN-01)	-	CFS-A01	_	CFS-A01	-		

With products from KERN you are ready to face the challenges of Industry 4.0



We will help to combine industrial production with the latest information and communication technology, with the aim of improving quality, reducing costs and using time and resources more efficiently so that you are able to react to future requirements in a more flexible manner. You will benefit from our uniform data protocol combined with our BalanceConnection 4.0 data software, for details please see page 167/168.

KERN Software BalanceConnection SCD-4.0



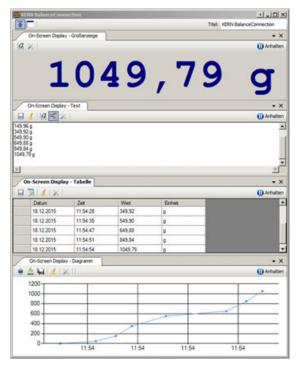
Easy transfer and editing of measuring results e.g. in Microsoft® Excel



Full overview of devices, outputs, queries, interfaces, etc. shown on the output window immediately.



Measurement report with line chart showing a moisture analysis



Different on-screen displays with export function



Do you have any questions? The team from our Industry 4.0 centre of expertise will be happy to help: e-mail: ITsupport@kern-sohn.com Or download a free demo version of the BalanceConnection software: http://balanceconnection.kern-sohn.com/demo

Flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access

Features

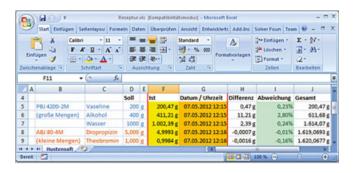
- For operating systems Windows XP, Vista, 7, 8, 8.1, 10
- · Supports balances measuring devices with RS 232, RS 485, Bluetooth, LAN or WiFi network (TCP/UDP/IP)
- · Highly flexible formatting of the output (any order, formatting and rounding), particularly recording of date and time for every value transferred, if required
- · Any number of devices/interfaces can be connected, as well as simultaneous and synchronised recording of several balances
- · Key-activated or time-controlled interrogation of measurements or trigger of device functions, also for continuous recording
- The interface protocols for KERN balances are already predefined (standard configuration)

- · Compatible interface cable included when you order a KERN balance at the same time
- · Many different transfer and recording options:
- Microsoft® Excel/Access/Word in the foreground or background
- Other Windows applications (through key simulation), e.g. shipping software or ERP system (SAP, Sage, etc.)
- File recording (e.g. as text or CSV file)
- Print out on text or label printer
- Screen output such as large display, line chart (drying curve for moisture analyser), histogram, etc.

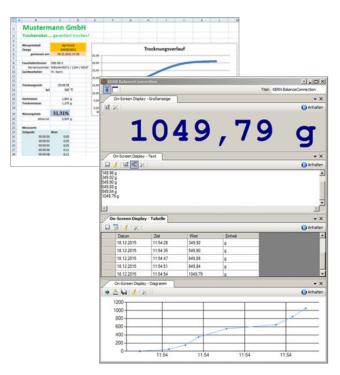
Benefits

- · Typing errors during e.g. manual transfer are avoided
- · Automatic recording, e.g. for long-term tests
- · GLP-compliant lab software
- · Can be used across different branches and applications
- · Also available as a cost-optimised package with 5 licenses, you save more than 30 %!
- Also available immediately as a download license
- · Scope of supplies: 1 CD, 1 license, KERN SCD-4.0
- · Scope of supplies: 1 CD, 5 licenses, KERN SCD-4.0-S05
- · Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL

KERN Software BalanceConnection SCD-4.0 Pro







Professional and highly flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access

Features

- For operating systems Windows XP, Vista, 7, 8, 8.1, 10
- Supports balances measuring devices with RS 232, RS 485, Bluetooth, LAN or WiFi network (TCP/UDP/IP)
- Highly flexible formatting of the output (any order, formatting and rounding), particularly recording of date and time for every value transferred, if required
- Any number of devices/interfaces can be connected, as well as simultaneous and synchronised recording of several balances
- Key-activated or time-controlled interrogation of measurements or trigger of device functions, also for continuous recording
- The interface protocols for KERN balances are already predefined (standard configuration)
- Compatible interface cable included when you order a KERN balance at the same time
- Many different transfer and recording options:
- Microsoft® Excel/Access/Word in the foreground or background
- Other Windows applications (through key simulation), e.g. shipping software or ERP system (SAP, Sage, etc.)
- File recording (e.g. as text or CSV file)
- Print out on text or label printer
- Screen output such as large display, line chart (drying curve for moisture analyser), histogram, etc.

Additional features of the BalanceConnection PRO version:

- ODBC/SQL databases such as SQL Server or MySQL
- Transfer to HTTP Webservices/Web forms
- Histogram
- Enables the connection of medical balances to practice EDP systems using the device data transfer protocol (GDT) and also the HL7 protocol
- Implementation of programs/scrips using freely-definable command lines
- · Command sequences
- Defining the conditions for specific events and the reaction to these events
- Filter for stability recognition (configurable value storage)
- Central configuration repository, e.g. on the network
- On-screen displays with configurable user interface for flexible balance operation

Benefits

- Ideal software where weighing data which has been collected needs to be transferred to a Windows PC
- Particularly suitable for professional integration of weighing systems into existing networks where there is a high demand for automated data transfer and further processing, for integration of databases
- Automatic recording, e.g. for long-term tests
- · GLP-compliant lab software
- Can be used across different branches and applications
- Also available as a cost-optimised package with 5 licenses, you save more than 30 %!
- Also available immediately as a download license
- Scope of supplies:
 1 CD, 1 License
 KERN SCD-4.0-PRO
- Scope of supplies:
 1 CD, 5 Licenses
 KERN SCD-4.0-PROS05
- Scope of supplies: Download link for 1 License, KERN SCD-4.0-PRO-DL



RS-232/Ethernet adapter KERN YKI-01

Adapter to connect balances, force measuring devices etc. with an RS-232 interface 2 to an IP-based Ethernet network 11. The adapter allows direct integration of measuring devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current measuring data at any time from within the whole network, without having to use additional cables. The adapter supports a wide range of configurational options using the enclosed administration software or by the web interface. The driver delivered with the goods allows you to access the measuring device with existing, non-network-compatible applications using a virtual COM port. Compatible with KERN BalanceConnection software. DIN track mount or free-standing.

Scope of delivery: RS-232 Ethernet adapter with 1x Port RS-232 **1**, mains adapter **4**, CD (driver, software, operating instructions), adhesive feet, (interface cable see page 167),

KERN YKI-01

RS-232/WiFi adapter KERN YKI-03

High-quality adapter for the wireless connection of balances, force measuring devices etc. with RS-232 interface to WiFi-enabled devices, such as tablets, laptops, Smartphones etc. In this way, where there is a physical separation or a large distance between the devices, the weighing data from one or several balances can be easily transferred without cable to a WiFi device or a network (relevant software on the WiFi device needed, not included in delivery). The adapter allows direct integration of measurement devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current measuring data at any time from within the whole network, without having to use additional cables. The adapter supports a wide range of configurational options using the enclosed administration software or by the web interface. The driver delivered with the goods allows you to access the measurement device with existing, non-network-compatible applications using a virtual COM port. Compatible with KERN Software BalanceConnection.

The adapter also has an Ethernet interface for a wired connection to an IP-based Ethernet network ■. Thanks to the screw terminals ②, the power connection can be implemented individually using individual wires or using the robust, screw-in power connector ⑤. Large input voltage range from 12 V-48 V. Suitable for wall mounting and DIN track mount ⑥ or free-standing.

Scope of delivery: RS-232/WiFi adapter, mains adapter, network cable (1 m), driver CD, (interface cable see page 167),

KERN YKI-03





Note: To connect to your network, you will need information from your network administrator. We recommend discussing connecting your device into your network with the administrator before you place your order.

Note: If you order a KERN balance at the same time, then the interface cable is free of charge (please specify balance model).



RS-232/Bluetooth adapter KERN YKI-02

Adapter for the wireless connection of balances, force measuring devices etc. with an RS-232 interface to Bluetooth devices, such as Bluetooth printers, tablets, laptops, Smartphones etc. In this way, where there is a physical separation or a large distance between the devices, the weighing data from one or several balances can be easily sent without cable and printed on a Bluetooth printer or transferred to a Bluetooth device (you would need the relevant software on the Bluetooth device, not included with the delivery). The compact adapter with its attractive design can usually be connected directly to the balance 11, e.g. an additional interface cable would not be necessary. Bluetooth adapter will be powered by the balance (if compatible) or with the mains adapter which is supplied as standard 2. Range up to 100 m outside, depending on obstacles, such as, walls, the sensitivity and type of antenna of the receiver. Intersections of sending and receiving lines using the DCE/DTE switch 3. Compatible with KERN Software BalanceConnection.

Scope of delivery: RS-232/Bluetooth adapter, mains adapter (EU/UK/USA/AUS/CH) ②, USB-A to Mini-USB-B cable ④, gender changer ⑤, driver CD, (interface cable see page 167),

KERN YKI-02



Note: To connect to your network, you will need information from your network administrator. We recommend discussing connecting your device into your network with the administrator before you place your order.

Note: If you order a KERN balance at the same time, then the interface cable is free of charge (please specify balance model).







Large display KERN YKD-A02

with superior display size, digit height 3" (76 mm). Luminescent, red LED display for easy reading of weight, even from a distance or under poor lighting conditions. 6 segments, mains connection as standard (230 V, EU/GB), connection using RS-232 data interface, dimensions W×D×H 541×55×180 mm.

Suitable for series IFB, BFB, NFB, UFA, UFB,

KERN YKD-A02

Signal lamp KERN CFS-A03

Signal lamp for visual support of weighing with tolerance range. Three-colour LED, red, green, yellow. Power supply via balance using RS-232. Total dimensions W×D×H 100×180×300 mm

Suitable for series BFB, BFN, BID, CKE, CPB-N, GAB-N, GAB-P, IFB, IFS, IOC, KFB-TM, KFN-TM, KIB-TM, NBB, NFB, NFN, SFB, UFA, UFB, UFC, UFN,

KERN CFS-A03

Power supply adapter set KERN YKA-02

from standard EU to GB/US/AUS/CH etc. Four pieces. Ideal for devices with Class II protection (not earthed). Ideal for Euro moulded plug,

KERN YKA-02



2nd RS-232 data interface KERN CFS-A04

separate Y cable, e.g. for simultaneous connection of a a printer and a signal lamp.

Suitable for series BAN, BFB, CFS, CPB-N, GAB-N, GAB-P, IFB, KFB-TM, NFB, NFN, UFN, UFA, UFB, SFB,

KFRN CFS-A04



RS-232/USB adapter KERN AFH 12

to connect peripheral devices with USB connection, fits on all balances and measuring instruments with RS-232 port.

Please order the appropriate RS-232 interface cable for your balance at the same time, see table on page 166

Scope of delivery: Converter cable, CD with driver,

KERN AFH 12



Stand (tripodal) KERN YKP-01

stable and robust, to elevate display device, stainless steel, height-adjustable, large three-legged adjustable foot, height of stand approx. 750–1000 mm, Factory Option.

Suitable for series BFA, BBB, BFN, BBN, KEN-TM, NFN, SFB (from weighing plate size W×D 500×400 mm), UFN,

KERN YKP-01



Tare pan KERN RFS-A02

Made of stainless steel, which makes cleaning easy and hygienic. Ideal for weighing loose screws, small parts as well as fruit, vegetables, cheese, etc.

- W×D×H 370×240×20 mm
- Net weight approx. 524 g

KERN RFS-A02



Stand (tripodal) KERN YKP-02

stable and robust, to elevate display device, stainless steel, height-adjustable, large three-legged adjustable foot, height of stand approx. 750–1000 mm, Factory Option.

Suitable for series BFB, BXS, BFS, BFA, BBB, BBN, BKN, IFS, IFB, KFE-TM, KXG-TM, KXS-TM, KEN-TM, NFB, NBB, SFE, UFA, UFB, UFC,

KERN YKP-02



Protective dust cover KERN ABS-A08

For protection from dust and light.

Suitable for all KERN analytical balances and precision balances with glass draught shield,

KERN ABS-A08



Tare pan with pan beam KERN CH-A01N

Made of stainless steel. Ideal for weighing loose small parts as well as fruit, vegetables etc. Max. load 30 kg. Removable tare pan which makes cleaning easy and hygienic.

Suitable for models KERN CH 15K20, HCB 20K10, HCN 20K50IP, HDB-N, HDB-XL

- Dimensions: tare pan, Ø/H 160×40 mm (dim. outside), 240×40 mm (dim. inside)
- Pan beam: W×D×H
 290×240×300 mm
 290×240×340 mm (incl. tare pan)
- Total net weight approx. 500 g

KERN CH-A01N



Universal density set KERN YDB-03

Universal density set for precise and convenient density determination of liquids and solids $\leq \geq 1$. Suitable for all current KERN analytical balances.

Scope of delivery: Beaker (Ø×H 84×113 mm), thermometer, sample holder, adapter, equalising weights, volume plummet (stainless steel, 20 g), universal submersible basket for solid bodies which float and sink. The wire of the submersible basket has a diameter of 0.5 mm and therefore complies with the requirements of DIN EN ISO 1183-1 (test methods for the determination of density of non-foamed plastics), KERN YDB-03

Optional:

Density determination of the volume plummet, DAkkS calibration certificate with all data relating to the density and volume, KERN 962-335V









Ioniser to neutralise electrostatic charge KERN YBI-01A

Goods to be weighed which are non-conductive, such as plastic, china, glass, etc often carry electrostatic charge. The electromagnetic field which then occurs between the goods to be weighed and the balance can cause the weighing result to be distorted by up to a gramme. Therefore, when weighing in milligrammes or even smaller increments, we recommend neutralising the electrostatic charge with the KERN AC-Korona discharge ioniser. With feet supplied with the ioniser, it can be positioned conveniently next to the balance or you can manually direct it from all sides onto a particular item to be weighed.

- Discharge of ozone 0,05 ppm/h
- Total dimensions W×D×H
 115×100×60 mm (Adjustable foot retracted),
 115×110×80 mm (Adjustable foot folded out)
- Net weight approx. 0,31 kg
- Mains connection 100-240 V, 50/60 Hz,
 AC power supply, DC 12 V, 500 mA, output,

KERN YBI-01A





Weighing table KERN YPS-03

The KERN YPS-03 weighing table has been constructed to absorb vibrations and oscillations, which would otherwise distort the weighing result.

The YPS-03 weighing table consists of:

- a heavy, polished granite slab (24 kg) and is positioned on absorbing rubber components and is used as a surface on which to stand the analytical balance
- a work table, the work surface of which surrounds the slab and offers many storage options. The sturdy powder-coated steel frame has four height-adjustable feet, which can be used to accurately level the weighing table if the floor is at all uneven
- You can work in an ergonomic way at the
 weighing table whether you are in a standing
 or seated position. The inlet on the front of
 the table offers enough space for you to sit
 down and operate the scale without touching
 the weighing table.
- · All surfaces are hygienic and easy to clean
- Suitable for all KERN analytical balances with total dimensions ≤ W×D 300×400 mm
- Total dimensions W×D×H 785×600×800 mm (Height adjustable)
- Dimensions granite slab, W×D×H 300×400×80 mm
- · Net weight approx. 46 kg

Ready for shipping in 2 working days. Dispatch complete on pallet, simple self-assembly. Please ask for dimensions, gross weight, shipping costs,

KERN YPS-03

Anti-vibration granite plates KERN YPS-04, -05, -06

- The KERN YPS-04, -05, -06 anti-vibration granite plates are designed to dampen shocks and vibrations that would otherwise distort the weighing results of high precision Laboratory Scales and analytical balances. Also ideal for vibration-free microscope set-up
- The anti-vibration granite plate is made of polished granite, which is supported through absorbent rubber elements
- The anti-vibration granite plate can be used ergonomically while standing or sitting comfortably
- Compact size, practical for small spaces
- All surfaces are hygienic and easy to clean
- Suitable for all KERN analytical balances, precision balances and microscopes with the corresponding dimensions
- Overall dimensions, W×D×H
 YPS-04: 400×450×60 mm
 YPS-05: 565x450x60 mm
 YPS-06: individual dimensions, according to your requirements
- Net weight approx.
 YPS-04: 30 kg
 YPS-05: 35 kg

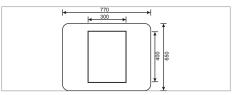
YPS-06: on request

Ready for shipping in 2 working days. Dispatch complete on pallet.

Please ask for dimensions, gross weight, shipping costs,

KERN YPS-04 KERN YPS-05

KERN YPS-06, on request











Roller conveyor KERN YRO-01/ YRO-02/ YRO-03

Through the smooth-running KERN roller conveyor attachments, KERN YRO, you can convert your platform scale into a robust measuring system for rapid and flexible weight determination in conveyor applications

Especially suitable for use in production and dispatch lines, where time means money. The goods or packages can either be weighed as they pass over the balance or, at fixed stations, heavy goods can easily be pushed onto the scale thanks to the roller conveyor and moved onto the connected roller conveyor

- Simply connect the roller conveyor attachment to a platform (e.g. KERN IFB, IFS, IXS, KFP, KXP, SXS) – done!
- Robust aluminium profile frame. The modular design means that you can easily disassemble it for cleaning or to replace individual components
- Smooth-running, hot-dip galvanised steel rollers with ball bearings
- · Conductive rollers
- Suitable for use in dry environments
- Roller distance approx. 30 mm
- Direction of movement is lengthways

- Scope of delivery: 1 roller conveyor attachment (without scale)
- We are happy to adapt the roller conveyor to your scale, adjust the preload or switch-on tolerance, etc. Please ask for your individual offer, your personal KERN contact person will be happy to help you

Model	Total dimensions	Suitable for platforms	Total net weight	
	W×D×H	with weighing plate sizes	approx.	
		W×D		
KERN	mm	mm	kg	
YRO-01	405×305×130	400×300	6	
YRO-02	505×405×130	500×400	9	
YRO-03	655×505×130	650×500	12	



Test weights

Weights yesterday and today

Weights have always been used to carry out weighing procedures. This original purpose has almost disappeared. Today, weights are used almost exclusively for adjusting and testing = calibration of electronic balances. We therefore call them "test weights" as this is their purpose of use.

Adjustment or calibration?

► Adjusting a balance means that you are intervening in the weighing system, to make sure that the display is set to show the correct nominal value. With ► calibration on the other hand, there is no intervention, you are testing whether the display is correct and documenting any deviation.

Testing, the right way!

The internationally valid OIML norm R111:2004 classifies test weights hierarchically in accuracy classes, where E1 is the most accurate and M3 is the least accurate weight class. With KERN you get the whole test weight range in all OIML accuracy classes E1, E2, F1, F2, M1, M2, M3.

As the test weight only becomes an **ISO 9000ff**-compliant test instrument when its accuracy has been proven, we offer the appropriate **DAkkS-calibration certificate** or verification certificate (in connection with a box) for all KERN test weights. For further details, see the calibration service section on page 202.

KERN offers you the appropriate test weight package for your balance, consisting of the test weight, box and DAkkS-calibration certificate, as proof of its accuracy. The best prerequisite for a correct adjustment or checking of your scales.

▶ See the glossary on page 215-217

Test weights: classes of accuracy E, F, M and their general relation to the types of balances:

- E1 Test weights for customers who require a high degree of accuracy for the most demanding applications. For high-resolution balances with d > 1,000,000 Use recommended with DAkkS calibration certificate only.
- E2 Most accurate test weights for high resolution analytical balances of verification class I ≥ 100,000 e
- F1 Test weights for analytical balances/precision balances for verification class I/II ≤ 100,000 e
- F2 Test weights for precision balances of verification class II ≤ 30,000 e
- M1 Test weights for industrial and commercial scales of verification class III ≤ 10,000 e

The appropriate test weight for your new KERN balance can also be found directly in the accessories of the balance in our webshop.

KERN DAkkS delivery times & shipping type	Total weight ≤ 30 kg (gross weight, incl. packaging)	Total weight > 30 kg (gross weight, incl. packaging)
DAkkS standard service Class E2 - M3	4 DAYS	4 DAYS
DAkkS standard service Class E1, 1 mg – 500 mg and recalibration 1 g –10 kg with a known volume	10 DAYS	10 DAYS
ClassE1, ≥ 1 g, incl. volume determination (new weights)	15 DAYS	15 DAYS
Special weights, Newton weights, heavy duty weights, weight carriers, containers for individual weight sets etc.	on re	quest

Just lean back – we have just the right test weight for your measuring device

KERN offers you a large range of OIML test weights, which you can use at any time to quickly and reliably check your balance, force-measuring device, etc.. From milligram weights to tonne weights, from the classic OIML design to special weights which are specifically manufactured to your specifications, we can offer you just the right test weight, and naturally the weights have the relevant DAkkS calibration certificate or factory calibration certificate.

On the following pages you will see a selection of standard test weights for OIML error limit classes E1, E2, F1, F2, M1, M2, M3.

We will be happy to manufacture special (large) weights, weight containers, Newton weights or weights with special weight values for you on request. Our test weights product specialist will be happy to give you expert, comprehensive advice.

Note: In our webshop you can conveniently select test weights for your scale that have been calculated and matched to your accuracy requirements and intended use – with or without calibration. We will be happy to determine the minimum sample quantity according to USP Chapter <41> and recommend a KERN Safety Set especially designed for your scale.



PREMIUM+ TEST WEIGHTS

Note: Our highly-accurate OIML test weights are also available as **PREMIUM** ⁺ **test weights** for that extra level of safety. Thanks to the most modern manufucturing technology, these test weights can also be adjusted within the specified error limit classes (= tolerances).

I.e. this means that these **PREMIUM**⁺ **test weights** have a significantly longer service life, thanks this guaranteed positive tolerance. This is of particular benefit with intensive use of the test weights.

For all the details on this **PREMIUM**⁺ service please see **www.kern-lab.com/premium**+ or look at the weight you want in our online shop at www.kern-sohn.com

Marking - never lose track again!

With the large variety of test equipment used then it is essential that they are identified accurately. We can help you with this and mark your test weights according to your ideas by etching or with impact numbers. Whether it's letters, numbers, your logo, barcodes or something else – it's your choice. Our product specialist "Test weights" will gladly help you with any questions about this service, prices, etc.





KERN SAFETY SETS

All the security you need!

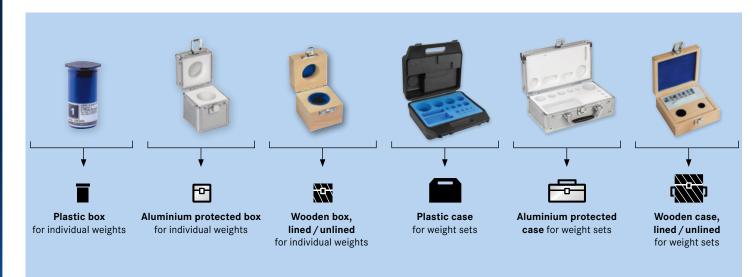
"KERN Safety Sets" which have been specially developed, put together and contain the right test weights to test and monitor your balance. They each consist of a test weight for checking the sensitivity, i.e. the correct adjustment of your scale, and a small test weight for checking at the lower end of the weighing range, the so-called minimum sample weight. As an option, the "KERN Safety Set" has space for another test weight, for testing your balance at a weight which is relevant for you.

Useful accessories which have been selected to suit that particular "KERN Safety Set", such as, for example, special gloves, tweezers, weight grips, brushes, etc. will assist you in handling your test weights properly. Stored in the practical protective case next to your balance, you can check and ensure the high precision of your balance at any time.

Just ask our test weight product specialist, he will be happy to recommend the right "KERN Safety Set" for your balance. You can also find the matching "KERN Safety Set" for each model on the Internet at www.kern-sohn.com



Our KERN weight cases at a glance:



It's your choice!

To protect your test weights we can offer you an appropriate weight case. If there are no legal or normative specifications, then you have the choice between plastic, aluminium protected or wood. The available weight cases are shown as a symbol in the test weight tables on the following pages. In this way you have all the materials, versions, sizes and prices at a glance, listed in a concise way.

It's so easy to order your suitable test weight

According to your safety requirements or the specifications of your QM system, you

select the test weight with the appropriate weight value and the required tolerance (see page 179/180).

We offer many test weights in different designs, giving you complete freedom to decide which test weights you want to use for your application. It goes without saying that all our test weights comply with the OIML R111:2004 directive. 3.

To protect your high-quality test equipment, we offer you cases in various designs. From low-priced plastic weight cases to aluminium protected weight cases to classic, high-quality wooden weight cases.

A DAkkS calibration certificate - the auditor's favourite! With this certificate you provide the standard-compliant proof of all important values of your test equipment and are on the safe side when operating and testing your measuring equipment.

1		2.				3.						4.	
Weight	100000000000000000000000000000000000000	Individual w	-	Individual w knob shape	- /	Plastic box		Aluminium pro	tected	Wooden box		DAkkS cer	tificate
		KERN	€	KERN	€	KERN	€	KERN 🗗	€	KERN 📉	€	KERN	€
1 g	0,03	316-01	36,-	317-01	52,-	317-020-400	4,-	317-010-600	14,-	317-010-100	26,-	962-331	30,-
2 g		316-02	36,-	317-02	53,-	317-020-400	4,-	317-020-600	14,-	317-020-100	26,-	962-332	30,-
5 g	0,05	316-03	37,-	317-03	56,-	317-030-400	4,-	317-030-600	14,-	317-030-100	26,-	962-333	30,-
10 g	0,06	316-04	38,-	317-04	60,-	317-040-400	4,-	317-040-600					30,-
20 g		316-05	43,-	317-05	68,-	317-050-400							
		216-06	46,-	317-06	73	317.04							

Weight	Knob shape in plastic case		Knob shape in protected case		Knob shape in wooden case	7.00	DAkkS cer	tificate
	KERN	€	KERN 🗖	Ξ €	KERN (Š 7 - €	KERN	€
1 mg - 500 mg	338-22	143,-	338-226	183,-			962-450	110
1 mg - 50 g	333-024	345,-	333-026	365,-	333-02	370,-	962-401	184
1 mg - 100 g	333-034	385,-	333-036	400,-	333-03	405,-	962-402	196
1 mg - 200 g	333-044	450,-	333-046	465,-	333-04	470,-	962-403	220
1 mg - 500 g	333-054	510,-	333-056	530,-	333-05	540,-	962-404	230
1 mg - 1 kg	333-064	630,-	333-066	650,-	333-06	***	040 405	240
1 mg - 2 kg	333-074	890,-	333-076		_			

A balance can never be more accurate than the test weight that is used to adjust it, it all depends on its tolerance. The accuracy of the test weight should correspond to the readout [d] of the balance, or rather be better.

Nominal weight value is shown in adjust mode "CAL" in the balance display. Given a choice, the heaviest weight is the most suitable for accurate measurement.

Once accuracy and nominal weight value are specified, the suitable test weight is selected according to the tolerances "Tol" of the individual accuracy classes E2 – M3, see column "Tol \pm mg" at the respective weight and table at page 180.

Example:

Balance with weighing range [Max] 2000 g = 2 kg and readout [d] = 0,01 g = 10 mg

- The accuracy of the required test weight is determined by readout [d]: max. tolerance ± 10 mg.
- Displayed weight size on "CAL" mode: 1000 g or 2000 g. The required test weight has a 2 kg weight size.
- Suitable test weights with \pm 10 mg tolerance and 2 kg weight size, can be found in accuracy class F1. KERN-No 326-12, see page 186.

Exception, analytical balances (readout $[d] \le 0,1$ mg): E1 test weights are recommended. Depending on the safety requirements, E2 test weights with a DAkkS calibration certificate will also be sufficient.

From finely turned to polished stainless steel - the right test weight for every situation





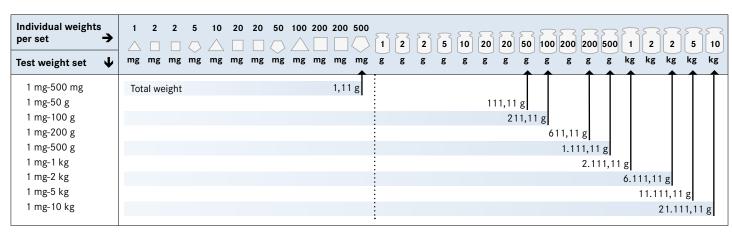






	4		4	4	
Test weight	Knob shape with lifting knob, polished	Compact shape with carrying grip, polished	Knob shape with lifting knob, polished	ECO shape, polished stainless steel	Knob shape with lifting knob, finely turned
Features •	stainless steel	stainless steel	stainless steel		stainless steel
Conforms to OIML:R111	yes	yes	yes	yes	yes
Available classes	E1, E2	E2	F1	F1	F2, M1
Upper surface	polished	polished	polished	polished	finely turned
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Adjusting cavity	no	no	yes	yes, from 50 g, readjustment can only be carried out by KERN	yes, from 20 g
Marking (Milligram weights, generally none)	no	none	Nominal value, etched	Nominal value, etched	F2: Class + nominal value, etched; M1: Class + nominal value, adopted
Verification possible	yes (E2)	yes	yes	no	yes (M1)
Checking equipment for verification purposes	approved (E2)	approved	approved	approved	approved (M1)
Ideal as checking equip- ment in QM systems (e.g. ISO 9000 ff)	yes	yes	yes	yes	yes
Benefits	High-quality test weight for analytical and precision balances Highly-refined surface Ideal shape of the top for good grip	Affordable test weight for analytical and precision balances Highly refined surface	Ideal, high-quality test weight for precision balances No visible adjustment chamber High long-term stability Ideal shape of the top for good grip	Affordable test weight for analytical and precision balances Highly refined surface Optimum shape of the top for good grip	Ideal test weight for commercial and indus- trial scales Ideal shape of the top for good grip

Composition table, valid for all KERN test weight sets from 1 mg



The key points from the OIML norm R111:2004

OIML (Organisation Internationale de Métrologie Légale) has established the exact metrological requirements for weights in verified applications in approx. 100 states all over the world. The OIML recommendation R111 (2004 Edition) for weights relates to sizes 1 mg – 5000 kg. Statements are made on the accuracy, materials, geometric shape, marking and storage of the weights.

Error limits for weights of classes E1 to M3

The error limit classes are in fixed hierarchical levels in the proportion of 1:3, where E1 is the most accurate and M3 is the least accurate weight class. When testing weights with other weights, the correct test class is the next highest class.

Error limit classes (= tolerances)

The values given in the table below (tolerances ± ... mg) are the respective permitted fabrication tolerances. They are to be equal to the ► measuring uncertainty of the weight, if no ► DAkkS calibration certificate is available.

Conventional mass

The problem is the air buoyancy, which makes the weight appear lighter. In order to avoid this "distortion" in daily use, all weights are adjusted to the unit specifications as given in R111, e.g. it is accepted that: material density of the weights is 8000 kg/m³, air density is 1.2 kg/m³ and measuring temperature is 20 °C.

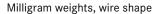
KERN test weights: Unless otherwise specified, they conform to OIML R111:2004 in every detail.

▶ See the glossary, page 215-217

Nominal value	OIML R111:2004 Maximum permissible errors for weights = permissible tolerances "Tol ± mg"						
	E1	E2	F1	F2	M 1	M2	М3
1 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
2 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
5 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
10 mg	± 0,003 mg	± 0,008 mg	± 0,025 mg	± 0,08 mg	± 0,25 mg	-	-
20 mg	± 0,003 mg	± 0,010 mg	± 0,03 mg	± 0,10 mg	± 0,3 mg	-	-
50 mg	± 0,004 mg	± 0,012 mg	± 0,04 mg	± 0,12 mg	± 0,4 mg	-	-
100 mg	± 0,005 mg	± 0,016 mg	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	-
200 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	± 0,6 mg	± 2,0 mg	-
500 mg	± 0,008 mg	± 0,025 mg	± 0,08 mg	± 0,25 mg	± 0,8 mg	± 2,5 mg	-
1 g	± 0,010 mg	± 0,03 mg	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg
2 g	± 0,012 mg	± 0,04 mg	± 0,12 mg	± 0,4 mg	± 1,2 mg	± 4,0 mg	± 12 mg
5 g	± 0,016 mg	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg
10 g	± 0,020 mg	± 0,06 mg	± 0,20 mg	± 0,6 mg	± 2,0 mg	± 6,0 mg	± 20 mg
20 g	± 0,025 mg	± 0,08 mg	± 0,25 mg	± 0,8 mg	± 2,5 mg	± 8,0 mg	± 25 mg
50 g	± 0,03 mg	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg
100 g	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg	± 50 mg
200 g	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg	± 100 mg
500 g	± 0,25 mg	± 0,8 mg	± 2,5 mg	± 8,0 mg	± 25 mg	± 80 mg	± 250 mg
1 kg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg
2 kg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg
5 kg	± 2,5 mg	± 8,0 mg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg
10 kg	± 5,0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg
20 kg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g
50 kg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g
100 kg	-	± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg	± 16 g	± 50 g
200 kg	-	± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g	± 30 g	± 100 g
500 kg	-	± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g	± 80 g	± 250 g
1 000 kg	-	± 1 600 mg	± 5 000 mg	± 16 g	± 50 g	± 160 g	± 500 g
2 000 kg	-	-	± 10 g	± 30 g	± 100 g	± 300 g	± 1 000 g
5 000 kg	-	-	± 25 g	± 80 g	± 250 g	± 800 g	± 2 500 g

Test weights and boxes Class E1







Individual weights, knob shape



Wooden box, for milligram weights



Plastic box, lined, for individual weights ≤ 50 g



Plastic box, lined, for individual weights ≥ 100 g



Wooden box, lined, for individual weights ≤ 500 g



Wooden box, lined, for individual weights ≥ 1 kg



set in plastic box set in aluminium (308-42)



Milligram weight Milligram weight protected box, lined (308-426)



Plastic case, lined, for weight sets, compact shape/ knob shape



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Aluminium protected case, lined, for weight sets, knob shape



Wooden case, lined, for weight sets, knob shape

Class E1 · Milligram weights, wire shape, stainless steel

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, wire shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	KERN	KERN 🗗	KERN	KERN
1 mg	0,003	308-31	347-009-400	317-009-600	338-090-200	962-251
2 mg	0,003	308-32	347-009-400	317-009-600	338-090-200	962-252
5 mg	0,003	308-33	347-009-400	317-009-600	338-090-200	962-253
10 mg	0,003	308-34	347-009-400	317-009-600	338-090-200	962-254
20 mg	0,003	308-35	347-009-400	317-009-600	338-090-200	962-255
50 mg	0,004	308-36	347-009-400	317-009-600	338-090-200	962-256
100 mg	0,005	308-37	347-009-400	317-009-600	338-090-200	962-257
200 mg	0,006	308-38	347-009-400	317-009-600	338-090-200	962-258
500 mg	0,008	308-39	347-009-400	317-009-600	338-090-200	962-259

Class E1 · Individual weights, knob shape, stainless steel polished

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate Initial calibration*	DAkkS certificate Recalibration
		KERN	KERN	KERN 🗗	KERN	KERN	KERN
1 g	0,010	307-01	317-020-400	317-010-600	317-010-100	963-231	962-231 R
2 g	0,012	307-02	317-020-400	317-020-600	317-020-100	963-232	962-232 R
5 g	0,016	307-03	317-030-400	317-030-600	317-030-100	963-233	962-233 R
10 g	0,020	307-04	317-040-400	317-040-600	317-040-100	963-234	962-234 R
20 g	0,025	307-05	317-050-400	317-050-600	317-050-100	963-335	962-235 R
50 g	0,030	307-06	317-060-400	317-060-600	317-060-100	963-236	962-236 R
100 g	0,050	307-07	317-070-400	317-070-600	317-070-100	963-237	962-237 R
200 g	0,100	307-08	317-080-400	317-080-600	317-080-100	963-238	962-238 R
500 g	0,250	307-09	317-090-400	317-090-600	317-090-100	963-239	962-239 R
1 kg	0,500	307-11	317-110-400	317-110-600	317-110-100	963-241	962-241R
2 kg	1,000	307-12	317-120-400	317-120-600	317-120-100	963-242	962-242 R
5 kg	2,500	307-13	317-130-400	317-130-600	317-130-100	963-243	962-243 R
10 kg	5,000	307-14	317-140-400	317-140-600	317-140-100	963-244	962-244 R
20 kg	10,000	307-15	-	317-150-600	317-150-100	963-245	962-245 R
50 kg	25,000	307-16	-	317-160-600	317-160-100	963-246	962-246 R

^{*} For E1 weights > 1g at the point of initial calibration, a volume determination will be carried out in accordance with OIML:R111. When recalibrating, this is not required.

Class E1 · Weight sets, knob shape, stainless steel polished

Test weight material: stainless steel polished

Weight set	Knob shape in plastic case	Knob shape in alu- minium protected case	Knob shape in wooden case	DAkkS certificate Initial calibration*	DAkkS certificate Recalibration
	KERN	KERN F	KERN ()	KERN	KERN
1 mg - 500 mg	308-42	308-426		962-250	962-250 R
1 mg - 50 g	303-024	303-026	303-02	963-201	962-201R
1 mg - 100 g	303-034	303-036	303-03	963-202	962-202 R
1 mg - 200 g	303-044	303-046	303-04	963-203	962-203 R
1 mg - 500 g	303-054	303-056	303-05	963-204	962-204 R
1 mg - 1 kg	303-064	303-066	303-06	963-205	962-205 R
1 mg - 2 kg	303-074	303-076	303-07	963-206	962-206 R
1 mg - 5 kg	303-084	303-086	303-08	963-207	962-207 R
1 mg - 10 kg	-	303-096	303-09	963-208	962-208 R
1 g - 50 g	304-024	304-026	304-02	963-215	962-215 R
1 g - 100 g	304-034	304-036	304-03	963-216	962-216 R
1 g - 200 g	304-044	304-046	304-04	963-217	962-217 R
1 g - 500 g	304-054	304-056	304-05	963-218	962-218 R
1 g - 1 kg	304-064	304-066	304-06	963-219	962-219 R
1 g - 2 kg	304-074	304-076	304-07	963-220	962-220 R
1 g - 5 kg	304-084	304-086	304-08	963-221	962-221R
1 g - 10 kg	-	304-096	304-09	963-222	962-222 R

Test weights and boxes Class E2



Milligram weights, flat polygonal sheet



Individual weights, compact shape



Individual weights, knob shape



Plastic box, lined, for individual weights ≤ 50 g



Plastic box, lined, for individual weights ≥ 100 g



Aluminium protected box, lined, for individual weights



Wooden box, lined, for individual weights ≤ 500 g



Wooden box, lined, for individual weights ≥1 kg

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set in plastic box set in aluminium (318-22)



Milligram weight Milligram weight protected box, lined (318-226)



Plastic case, lined, for weight sets, compact shape/ knob shape



Aluminium protected case, lined, for weight sets, compact shape/ knob shape



Wooden case, lined, for weight sets, compact shape/ knob shape

Class E2 · Milligram weights, flat polygonal sheet, stainless steel

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	KERN	KERN 🗗	KERN	KERN
1 mg	0,006	318-01	347-009-400	317-009-600	338-090-200	962-351
2 mg	0,006	318-02	347-009-400	317-009-600	338-090-200	962-352
5 mg	0,006	318-03	347-009-400	317-009-600	338-090-200	962-353
10 mg	0,008	318-04	347-009-400	317-009-600	338-090-200	962-354
20 mg	0,010	318-05	347-009-400	317-009-600	338-090-200	962-355
50 mg	0,012	318-06	347-009-400	317-009-600	338-090-200	962-356
100 mg	0,016	318-07	347-009-400	317-009-600	338-090-200	962-357
200 mg	0,020	318-08	347-009-400	317-009-600	338-090-200	962-358
500 mg	0,025	318-09	347-009-400	317-009-600	338-090-200	962-359

Class E2 · Individual weights, compact shape or knob shape, polished stainless steel

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weights, compact shape	Individual weights, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	KERN	KERN	KERN 🗗	KERN X	KERN
1 g	0,03	316-01	317-01	317-020-400	317-010-600	317-010-100	962-331
2 g	0,04	316-02	317-02	317-020-400	317-020-600	317-020-100	962-332
5 g	0,05	316-03	317-03	317-030-400	317-030-600	317-030-100	962-333
10 g	0,06	316-04	317-04	317-040-400	317-040-600	317-040-100	962-334
20 g	0,08	316-05	317-05	317-050-400	317-050-600	317-050-100	962-335
50 g	0,10	316-06	317-06	317-060-400	317-060-600	317-060-100	962-336
100 g	0,16	316-07	317-07	317-070-400	317-070-600	317-070-100	962-337
200 g	0,30	316-08	317-08	317-080-400	317-080-600	317-080-100	962-338
500 g	0,80	316-09	317-09	317-090-400	317-090-600	317-090-100	962-339
1 kg	1,60	316-11	317-11	317-110-400	317-110-600	317-110-100	962-341
2 kg	3,00	316-12	317-12	317-120-400	317-120-600	317-120-100	962-342
5 kg	8,00	316-13	317-13	317-130-400	317-130-600	317-130-100	962-343
10 kg	16,00	316-14	317-14	317-140-400	317-140-600	317-140-100	962-344
20 kg	30,00	-	317-15	-	317-150-600	317-150-100	962-345
50 kg	80,00	-	317-16	-	317-160-600	317-160-100	962-346

Class E2 · Weight sets, compact shape or knob shape, polished stainless steel

Test weight material: Milligramm weights stainless steel, individual weights: polished stainless steel.

Weight sets	Compact shape in plastic case	Knob shape in plastic case	Knob shape in aluminium protected case	Knob shape in wooden case	DAkkS certificate
	KERN	KERN	KERN	KERN (KERN
1 mg - 500 mg	318-22	-	318-226		962-350
1 mg - 50 g	-	313-024	313-026	313-02	962-301
1 mg - 100 g	-	313-034	313-036	313-03	962-302
1 mg - 200 g	-	313-044	313-046	313-04	962-303
1 mg - 500 g	-	313-054	313-056	313-05	962-304
1 mg - 1 kg	-	313-064	313-066	313-06	962-305
1 mg - 2 kg	-	313-074	313-076	313-07	962-306
1 mg - 5 kg	-	313-084	313-086	313-08	962-307
1 mg - 10 kg	-	-	313-096	313-09	962-308
1 g - 50 g	312-024	314-024	314-026	314-02	962-315
1 g - 100 g	312-034	314-034	314-036	314-03	962-316
1 g - 200 g	312-044	314-044	314-046	314-04	962-317
1 g - 500 g	312-054	314-054	314-056	314-05	962-318
1 g - 1 kg	312-064	314-064	314-066	314-06	962-319
1 g - 2 kg	312-074	314-074	314-076	314-07	962-320
1 g - 5 kg	312-084	314-084	314-086	314-08	962-321
1 g -10 kg	-	-	314-096	314-09	962-322

Note

Our highly-accurate OIML test weights are also available as **Premium**⁺ **weights** for that extra level of safety. See all details page 176 or on **www.kern-lab.com/premium**+

17

Test weights and boxes Class F1



Milligram weights, flat polygonal sheet



Individual weights/ Weight sets, ECO shape



Individual weights/ Weight sets, knob shape



Test weights (10 - 50 kg), polished stainless steel, KERN 327-141 ff, optional: Wooden box



Block weight, polished stainless steel



Plastic box, lined, for individual weights ≤ 200 g



Plastic box, lined, for individual weights ≥ 500 g



Aluminium protected box, lined, for individual weights

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Wooden box, lined, for individual weights ≤ 500 g



Wooden box, lined, for individual weights ≥1 kg

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Milligram weight Milligram weight set in plastic box set in aluminium (328-22)



protected box, lined (328-226)



Plastic case, lined for weight sets, ECO shape/ knob shape



Aluminium protected case, lined, for weight sets ECO shape/ knob shape



Wooden case, lined, for weight sets ECO shape/ knob shape

Class F1 · Milligram weights, flat polygonal sheet, stainless steel

Test weight material: stainless steel

•	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	KERN	KERN 🗗	KERN X	KERN
1 mg	0,020	328-01	347-009-400	317-009-600	338-090-200	962-451
2 mg	0,020	328-02	347-009-400	317-009-600	338-090-200	962-452
5 mg	0,020	328-03	347-009-400	317-009-600	338-090-200	962-453
10 mg	0,025	328-04	347-009-400	317-009-600	338-090-200	962-454
20 mg	0,03	328-05	347-009-400	317-009-600	338-090-200	962-455
50 mg	0,04	328-06	347-009-400	317-009-600	338-090-200	962-456
100 mg	0,05	328-07	347-009-400	317-009-600	338-090-200	962-457
200 mg	0,06	328-08	347-009-400	317-009-600	338-090-200	962-458
500 mg	0,08	328-09	347-009-400	317-009-600	338-090-200	962-459

Class F1 · Individual weights, ECO shape or knob shape, polished stainless steel

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weight, ECO shape	Individual weight, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	KERN	KERN	KERN 🗗	KERN X	KERN
1 g	0,10	326-01	327-01	347-030-400	317-010-600	317-010-100	962-431
2 g	0,12	326-02	327-02	347-030-400	317-020-600	317-020-100	962-432
5 g	0,16	326-03	327-03	347-030-400	317-030-600	317-030-100	962-433
10 g	0,20	326-04	327-04	347-050-400	317-040-600	317-040-100	962-434
20 g	0,25	326-05	327-05	347-050-400	317-050-600	317-050-100	962-435
50 g	0,30	326-06	327-06	347-070-400	317-060-600	317-060-100	962-436
100 g	0,50	326-07	327-07	347-070-400	317-070-600	317-070-100	962-437
200 g	1,00	326-08	327-08	347-080-400	317-080-600	317-080-100	962-438
500 g	2,50	326-09	327-09	347-090-400	317-090-600	317-090-100	962-439
1 kg	5,00	326-11	327-11	347-110-400	317-110-600	317-110-100	962-441
2 kg	10	326-12	327-12	347-120-400	317-120-600	317-120-100	962-442
5 kg	25	326-13	327-13	347-130-400	317-130-600	317-130-100	962-443
10 kg	50	326-14	327-14	347-140-400	317-140-600	317-140-100	962-444
20 kg	100	-	327-15	-	317-150-600	317-150-100	962-445
50 kg	250	-	327-16	-	317-160-600	317-160-100	962-446

Class F1 · Block weights, stainless steel polished

Block weight material: stainless steel polished

Weight Tol +/- mg		Block weight, stainless steel	Aluminium protected case	DAkkS certificate
		KERN	KERN	KERN
5 kg	25	326-36	346-060-600	962-443
10 kg	50	326-37	346-070-600	962-444
20 kg	100	326-38	346-080-600	962-445
50 kg	250	326-39	346-090-600	962-446

${\it Class} \; {\it F1} \cdot {\it Test \ weights}, \\ {\it stainless \ steel \ polished}, \\ {\it stackable}$

Test weight material: stainless steel polished

Weight	Tol +/- mg	Test weight, stainless steel	Wooden case	DAkkS certificate
		KERN	KERN	KERN
10 kg	50	327-141	337-141-100	962-444
20 kg	100	327-151	337-151-100	962-445
50 kg	250	327-161	337-161-100	962-446

Class F1 · Weight sets, ECO shape, polished stainless steel

Test weight material: Milligramm weights stainless steel, Individual weights: polished stainless steel

Weight sets	ECO shape in plastic case	ECO shape in aluminium protected case	ECO shape in wooden case	DAkkS certificate
	KERN	KERN	KERN (1)	KERN
1 mg - 500 mg	328-22	328-226		962-450
1 mg - 50 g	325-024	325-026	325-022	962-401
1 mg - 100 g	325-034	325-036	325-032	962-402
1 mg - 200 g	325-044	325-046	325-042	962-403
1 mg - 500 g	325-054	325-056	325-052	962-404
1 mg - 1 kg	325-064	325-066	325-062	962-405
1 mg - 2 kg	325-074	325-076	325-072	962-406
1 mg - 5 kg	325-084	325-086	325-082	962-407
1 mg - 10 kg	-	325-096	325-092	962-408
1 g - 50 g	326-024	326-026	326-022	962-415
1 g - 100 g	326-034	326-036	326-032	962-416
1 g - 200 g	326-044	326-046	326-042	962-417
1 g - 500 g	326-054	326-056	326-052	962-418
1 g - 1 kg	326-064	326-066	326-062	962-419
1 g - 2 kg	326-074	326-076	326-072	962-420
1 g - 5 kg	326-084	326-086	326-082	962-421
1 g - 10 kg	-	326-096	326-092	962-422

Class F1 · Weight sets, knob shape, polished stainless steel

Test weight material: Milligramm weights stainless steel, Individual weights: polished stainless steel

Weight sets	Knob shape in plastic case	Knob shape in aluminium protected case	Knob shape in wooden case	DAkkS certificate
	iii piastic case	protected case	iii woodeii case	
	KERN	KERN	KERN KERN	KERN
1 mg - 500 mg	328-22	328-226		962-450
1 mg - 50 g	323-024	323-026	323-02	962-401
1 mg - 100 g	323-034	323-036	323-03	962-402
1 mg - 200 g	323-044	323-046	323-04	962-403
1 mg - 500 g	323-054	323-056	323-05	962-404
1 mg - 1 kg	323-064	323-066	323-06	962-405
1 mg - 2 kg	323-074	323-076	323-07	962-406
1 mg - 5 kg	323-084	323-086	323-08	962-407
1 mg - 10 kg	-	323-096	323-09	962-408
1 g - 50 g	324-024	324-026	324-02	962-415
1 g - 100 g	324-034	324-036	324-03	962-416
1 g - 200 g	324-044	324-046	324-04	962-417
1 g - 500 g	324-054	325-092	324-05	962-418
1 g - 1 kg	324-064	324-066	324-06	962-419
1 g - 2 kg	324-074	324-076	324-07	962-420
1 g - 5 kg	324-084	324-086	324-08	962-421
1 g - 10 kg	-	324-096	324-09	962-422

Test weights and boxes Class F2



Milligram weights, flat polygonal sheet



Individual weights/Weight sets, knob shape



Block weight, stainless steel



Test weights (10 - 50 kg), finely turned stainless steel KERN 337-141 ff, optional: Wooden box



Plastic box, lined, for individual weights ≤ 200 g



Plastic box, lined, for individual weights ≥ 500 g



Aluminium protected box, lined, for individual weights



Wooden box, not lined for individual weights ≤ 500 g



Wooden box, not lined, for individual weights ≥1 kg



(338-22)



set in plastic box set in aluminium protected box, lined (338-226)



Milligram weight Milligram weight Plastic case, lined, for weight sets, knob shape



Aluminium protected case, lined, for weight sets, knob shape



Wooden case, for weight sets, knob shape

188

Class F2 · Milligram weights, flat polygonal sheet, stainless steel

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	KERN	KERN 🗖	KERN	KERN
1 mg	0,06	338-01	347-009-400	317-009-600	338-090-200	962-451
2 mg	0,06	338-02	347-009-400	317-009-600	338-090-200	962-452
5 mg	0,06	338-03	347-009-400	317-009-600	338-090-200	962-453
10 mg	0,08	338-04	347-009-400	317-009-600	338-090-200	962-454
20 mg	0,10	338-05	347-009-400	317-009-600	338-090-200	962-455
50 mg	0,12	338-06	347-009-400	317-009-600	338-090-200	962-456
100 mg	0,16	338-07	347-009-400	317-009-600	338-090-200	962-457
200 mg	0,20	338-08	347-009-400	317-009-600	338-090-200	962-458
500 mg	0,25	338-09	347-009-400	317-009-600	338-090-200	962-459

Class F2 · Individual weights, knob shape, finely turned stainless steel

Test weight material: finely turned polished

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
	6	KERN	KERN	KERN 🗗	KERN .	KERN
1 g	0,3	337-01	347-030-400	317-010-600	337-010-200	962-431
2 g	0,4	337-02	347-030-400	317-020-600	337-020-200	962-432
5 g	0,5	337-03	347-030-400	317-030-600	337-030-200	962-433
10 g	0,6	337-04	347-050-400	317-040-600	337-040-200	962-434
20 g	0,8	337-05	347-050-400	317-050-600	337-050-200	962-435
50 g	1,0	337-06	347-070-400	317-060-600	337-060-200	962-436
100 g		337-07	347-070-400	317-070-600	337-070-200	962-437
200 g	3,0	337-08	347-080-400	317-080-600	337-080-200	962-438
500 g	8,0	337-09	347-090-400	317-090-600	337-090-200	962-439
1 kg	16	337-11	347-110-400	317-110-600	337-110-200	962-441
2 kg	30	337-12	347-120-400	317-120-600	337-120-200	962-442
5 kg	80	337-13	347-130-400	317-130-600	337-130-200	962-443
10 kg	160	337-14	347-140-400	317-140-600	337-140-200	962-444
20 kg	300	337-15	-	317-150-600	337-150-200	962-445
50 kg	800	337-16	=	317-160-600	337-160-200	962-446

Class F2 · Test weights, finely turned stainless steel

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Test weight, stainless steel KERN	Wooden box KERN	DAkkS certificate KERN
10 kg	160	337-141	337-141-200	962-444
20 kg	300	337-151	337-151-200	962-445
50 kg	800	337-161	337-161-200	962-446

Class F2 · Block weights, stainless steel glass bead blasted

Block weight material: stainless steel glass bead blasted

Weight	Tol +/- mg	Block weight, stainless steel KERN	Aluminium protected case KERN	DAkkS certificate KERN
5 kg	80	336-36	346-060-600	962-443
10 kg	160	336-37	346-070-600	962-444
20 kg	300	336-38	346-080-600	962-445
50 kg	800	336-39	346-090-600	962-446

${\it Class} \; {\it F2} \cdot {\it Weight sets, knob shape, finely turned stainless steel}$

Test weight material: Milligramm weights stainless steel, individual weights finely turned stainless steel.

Weight	Knob shape in plastic case	Knob shape in aluminium protected case	Knob shape in wooden case	DAkkS certificate
	KERN	KERN	KERN []	KERN
1 mg - 500 mg	338-22	338-226		962-450
1 mg - 50 g	333-024	333-026	333-02	962-401
1 mg - 100 g	333-034	333-036	333-03	962-402
1 mg - 200 g	333-044	333-046	333-04	962-403
1 mg - 500 g	333-054	333-056	333-05	962-404
1 mg - 1 kg	333-064	333-066	333-06	962-405
1 mg - 2 kg	333-074	333-076	333-07	962-406
1 mg - 5 kg	333-084	333-086	333-08	962-407
1 mg - 10 kg	-	333-096	333-09	962-408
1 g - 50 g	334-024	334-026	334-02	962-415
1 g - 100 g	334-034	334-036	334-03	962-416
1 g - 200 g	334-044	334-046	334-04	962-417
1 g - 500 g	334-054	334-056	334-05	962-418
1 g - 1 kg	334-064	334-066	334-06	962-419
1 g - 2 kg	334-074	334-076	334-07	962-420
1 g - 5 kg	334-084	334-086	334-08	962-421
1 g -10 kg	-	334-096	334-09	962-422

Test weights and boxes Class M1



Milligram weights, flat polygonal sheet



Individual weights/weight sets, knob shape, finely turned stainless steel



Hook weights, finely turned stainless steel



Slotted weights, finely turned stainless steel



Plastic box, for individual weights \leq 200 g, for hook weights and slotted weights ≤ 50 g



Plastic box, lined, for individual weights ≥ 500 g, for hook weights and slotted weights ≥ 100 g



Aluminium protected box, lined, for individual weights



Wooden box, not lined, for individual weights ≤ 500 g



Wooden box, not lined, for individual weights ≥1 kg



Milligram weight Milligram weight set in plastic box set in aluminium (348-22)



Plastic case, lined, for weight sets, knob shape, finely turned stainless steel



Aluminium protected case, lined, for weight sets, knob shape, finely turned stainless steel



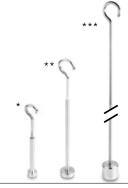
Wooden case, for weight sets, knob shape, finely turned stainless steel



protected box,

lined (348-226)

Test weights (10 - 50 kg), finely turned stainless steel KERN 347-141 ff, optional: Wooden box



Beam bars, for fixing slotted weights, aluminium or finely turned stainless steel * | ** | *** see page 194



Block weights, lacquered cast iron/stainless steel glass bead blasted, optional: Aluminium protected case, lined



17

Class M1 · Milligram weights, flat polygonal sheet, stainless steel

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	KERN	KERN 🗗	KERN N	KERN
1 mg	0,20	348-01	347-009-400	317-009-600	338-090-200	962-651
2 mg	0,20	348-02	347-009-400	317-009-600	338-090-200	962-652
5 mg	0,20	348-03	347-009-400	317-009-600	338-090-200	962-653
10 mg	0,25	348-04	347-009-400	317-009-600	338-090-200	962-654
20 mg	0,30	348-05	347-009-400	317-009-600	338-090-200	962-655
50 mg	0,40	348-06	347-009-400	317-009-600	338-090-200	962-656
100 mg	0,50	348-07	347-009-400	317-009-600	338-090-200	962-657
200 mg	0,60	348-08	347-009-400	317-009-600	338-090-200	962-658
500 mg	0,80	348-09	347-009-400	317-009-600	338-090-200	962-659

Class M1 · Individual weights, knob shape, stainless steel

Test weights material: stainless steel

Weight	Tol +/- mg	Individual weight, stainless steel	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	KERN	KERN 🗗	KERN X	KERN
1 g	1,0	347-01	347-030-400	317-010-600	337-010-200	962-631
2 g	1,2	347-02	347-030-400	317-020-600	337-020-200	962-632
5 g	1,6	347-03	347-030-400	317-030-600	337-030-200	962-633
10 g	2,0	347-04	347-050-400	317-040-600	337-040-200	962-634
20 g	2,5	347-05	347-050-400	317-050-600	337-050-200	962-635
50 g	3,0	347-06	347-070-400	317-060-600	337-060-200	962-636
100 g	5,0	347-07	347-070-400	317-070-600	337-070-200	962-637
200 g	10	347-08	347-080-400	317-080-600	337-080-200	962-638
500 g	25	347-09	347-090-400	317-090-600	337-090-200	962-639
1 kg	50	347-11	347-110-400	317-110-600	337-110-200	962-641
2 kg	100	347-12	347-120-400	317-120-600	337-120-200	962-642
5 kg	250	347-13	347-130-400	317-130-600	337-130-200	962-643
10 kg	500	347-14	347-140-400	317-140-600	337-140-200	962-644

Class M1 · Block weights, lacquered cast iron or stainless steel glass bead blasted

Block weight material: cast iron or stainless steel, surface and edges refined

Weight	Tol +/- g	Block weight, cast iron	Block weight, stainless steel	Aluminium protected case	DAkkS certificate
		KERN	KERN	KERN	KERN
5 kg	0,25	346-86	346-06	346-060-600	962-643
10 kg	0,50	346-87	346-07	346-070-600	962-644
20 kg	1,00	346-88	346-08	346-080-600	962-645
50 kg	2,50	346-89	346-09	346-090-600	962-646

${\it Class~M1} \cdot {\it ECO~Block~weights, lacquered~cast~iron}$

ECO Block weight material: cast iron, surface and edges machined

Weight Tol +/- g		ECO Block weight, cast iron	Aluminium protected case	DAkkS certificate
		KERN	KERN	KERN
5 kg	0,25	346-76	346-060-600	962-643
10 kg	0,50	346-77	346-070-600	962-644
20 kg	1,00	346-78	346-080-600	962-645
50 kg	2,50	346-79	346-090-600	962-646

Class M1 · Test weights, stainless steel, stackable

Test weight material: finely turned stainless steel

Weight	Tol +/- g	Test weight, stainless steel	Wooden box	DAkkS certificate
		KERN	KERN	KERN
10 kg	0,5	347-141	337-141-200	962-644
20 kg	1,0	347-151	337-151-200	962-645
50 kg	2,5	347-161	337-161-200	962-646

Class M1 · Heavy duty weights, lacquered cast iron, stackable

Heavy duty weight material: cast iron

Designed to be lifted with forklift trucks or cranes, delivery time is approx. 6-8 weeks

Dimensions: see internet on www.kern-sohn.com

Weight	Tol +/- g	Heavy duty weight, cast iron	DAkkS certificate
		KERN	KERN
100 kg	5	346-81	962-691
200 kg	10	346-82	962-692
500 kg	25	346-83	962-693
1000 kg	50	346-84	962-694
2000 kg	100	346-85	962-695



Note

We also offer a large range of heavy-duty weights in other materials, for example, stainless steel and in other forms, for example, discs or individual weight containers, please ask for details.

Class M1 · Weight sets, knob shape, stainless steel

Test weight material: Milligramm weights stainless steel, individual weights stainless steel

Weight	Knob shape, finely turned stainless steel,	Knob shape, finely turned stainless steel,	Knob shape, finely turned stainless steel,	DAkkS certificate
	in plastic case	in wooden case	in aluminium protected case	
	KERN	KERN	KERN	KERN
1 mg - 500 mg	348-22	-	348-226	962-650
1 mg - 50 g	343-024	343-02	343-026	962-601
1 mg - 100 g	343-034	343-03	343-036	962-602
1 mg - 200 g	343-044	343-04	343-046	962-603
1 mg - 500 g	343-054	343-05	343-056	962-604
1 mg - 1 kg	343-064	343-06	343-066	962-605
1 mg - 2 kg	343-074	343-07	343-076	962-606
1 mg – 5 kg	343-084	343-08	343-086	962-607
1 mg – 10 kg	-	343-09	343-096	962-608
1 g - 50 g	344-024	344-02	344-026	962-615
1 g - 100 g	344-034	344-03	344-036	962-616
1 g - 200 g	344-044	344-04	344-046	962-617
1 g - 500 g	344-054	344-05	344-056	962-618
1 g - 1 kg	344-064	344-06	344-066	962-619
1 g – 2 kg	344-074	344-07	344-076	962-620
1 g – 5 kg	344-084	344-08	344-086	962-621
1 g - 10 kg	-	344-09	344-096	962-622

Class M1 · Hook weights, finely turned stainless steel

Hook weight material: finely turned stainless steel

Weight	Tol +/- mg	Hook weight, stainless steel	Plastic box, linned	DAkkS certificate
		KERN	KERN	KERN
1 g	1,0	347-016	347-030-400	962-631
2 g	1,2	347-026	347-030-400	962-632
5 g	1,6	347-036	347-030-400	962-633
10 g	2,0	347-046	347-050-400	962-634
20 g	2,5	347-056	347-050-400	962-635
50 g	3,0	347-066	347-070-400	962-636
100 g	5,0	347-076	347-090-400	962-637
200 g	10,0	347-086	347-090-400	962-638
500 g	25,0	347-096	347-110-400	962-639
1 kg	50,0	347-116	347-120-400	962-641
2 kg	100,0	347-126	347-130-400	962-642
5 kg	250,0	347-136	347-140-400	962-643
10 kg	500,0	347-146	-	962-644

Class M1 · Slotted weights, finely turned stainless steel

Slotted weight material: finely turned stainless steel

Weight	Tol +/- mg	Slotted weight, stainless steel	Plastic box, lined	DAkkS certificate
		KERN	KERN	KERN
1 g	1,0	347-015	347-030-400	962-631
2 g	1,2	347-025	347-030-400	962-632
5 g	1,6	347-035	347-030-400	962-633
10 g	2,0	347-045	347-030-400	962-634
20 g	2,5	347-055	347-080-400	962-635
50 g	3,0	347-065	347-080-400	962-636
100 g	5,0	347-075	347-090-400	962-637
200 g	10	347-085	347-090-400	962-638
500 g	25	347-095	347-110-400	962-639
1 kg	50	347-115	347-130-400	962-641
2 kg	100	347-125	347-130-400	962-642
5 kg	250	347-135	347-140-400	962-643
10 kg	500	347-145	347-140-400	962-644

Class M1 · Beam bars, for fixing slotted weights

Beam bars material: 10 g: aluminium, 100 g-1 kg: finely turned stainless steel

Own weight beam bar	Maximum total load (1)	Largest slotted weight possible	Material	Length	Beam bar	DAkkS certificate
					KERN	KERN
10 g	200 g	100 g	Aluminium	117,5	347-445-100*	962-634
100 g	2 kg	1 kg	Stainless steel	238	347-075-100**	962-637
500 g	20 kg	10 kg	Stainless steel	639	347-095-100***	962-639
1 kg	40 kg	10 kg	Stainless steel	1020	347-115-100***	962-641

⁽¹⁾ is exclusive of the own weight of the beam bar, e.g. the maximum possible total weight is calculated from "Maximum total load" + "own weight beam bar";

Newton weights (N)

All hook and slotted weights as well as beam bars are available with N adjustment according to M1 tolerances We need to know the location of use and postal code.

DAkkS calibration certificate for N weights: identical to DAkkS prices for individual weights M1

^{* | ** | ***} see page 191

Test weights and boxes Classes M2 · M3



Individual weights/Weight sets, knob shape, stainless steel



Individual weights/Weight sets, knob shape, lacquered cast iron



Block weights, lacquered cast iron



Plastic box, lined, for individual weights



Aluminium protected box, lined, for individual weights



Wooden box, not lined, for individual weights ≤ 500 g, Inot appropriate for cast iron weights



Wooden box, not lined, for individual weights ≥1 kg,

■ not appropriate for cast iron weights



Aluminium protected case, lined, for block weights



Aluminium protected case, lined, for weight sets knob shape, finely turned stainless steel, ■ not appropriate for cast iron weights



Wooden case, for weight sets, knob shape, finely turned stainless steel



Wooden block, for weight sets, knob shape, lacquered cast iron



17

Class M2 · Individual weights, knob shape, finely turned stainless steel

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box, lined	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	KERN	KERN 🗗	KERN	KERN
1 g	3	357-01	347-030-400	317-010-600	337-010-200	962-631
2 g	4	357-02	347-030-400	317-020-600	337-020-200	962-632
5 g	5	357-03	347-030-400	317-030-600	337-030-200	962-633
10 g	6	357-04	347-050-400	317-040-600	337-040-200	962-634
20 g	8	357-05	347-050-400	317-050-600	337-050-200	962-635
50 g	10	357-06	347-070-400	317-060-600	337-060-200	962-636
100 g	16	357-07	347-070-400	317-070-600	337-070-200	962-637
200 g	30	357-08	347-080-400	317-080-600	337-080-200	962-638
500 g	80	357-09	347-090-400	317-090-600	337-090-200	962-639
1 kg	160	357-11	347-110-400	317-110-600	337-110-200	962-641
2 kg	300	357-12	347-120-400	317-120-600	337-120-200	962-642
5 kg	800	357-13	347-130-400	317-130-600	337-130-200	962-643
10 kg	1600	357-14	347-140-400	317-140-600	337-140-200	962-644

Class M2 · Block weights, lacquered cast iron

Block weight material: cast iron, surface and edges refined

Weight	Tol +/- g	Block weight, cast iron	Aluminium protected box	DAkkS certificate
		KERN	KERN	KERN
5 kg	0,8	356-86	346-060-600	962-643
10 kg	1,6	356-87	346-070-600	962-644
20 kg	3,0	356-88	346-080-600	962-645
50 kg	8,0	356-89	346-090-600	962-646

Class M2 · ECO Block weights, lacquered cast iron

ECO Block weight material: lacquered cast iron, surface and edges machined

Weight	Tol +/- g	ECO block weight, cast iron	Aluminium protected box	DAkkS certificate
		KERN	KERN	KERN
5 kg	0,8	356-76	346-060-600	962-643
10 kg	1,6	356-77	346-070-600	962-644
20 kg	3,0	356-78	346-080-600	962-645
50 kg	8,0	356-79	346-090-600	962-646

Class M2 · Weight sets, knob shape, stainless steel

Test weight material: finely turned stainless steel

Weight	Knob shape, in aluminium protected case	Knob shape, in wooden case	DAkkS certificate
	KERN	KERN (1)	KERN
1 g - 50 g	354-026	354-02	962-615
1 g - 100 g	354-036	354-03	962-616
1 g - 200 g	354-046	354-04	962-617
1 g - 500 g	354-056	354-05	962-618
1 g - 1 kg	354-066	354-06	962-619
1 g - 2 kg	354-076	354-07	962-620
1 g - 5 kg	354-086	354-08	962-621
1 g - 10 kg	354-096	354-09	962-622

Class M3 · Individual weights, knob shape, stainless steel

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box, lined	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	KERN	KERN 🗗	KERN	KERN
1 g	10	367-01	347-030-400	317-010-600	337-010-200	962-631
2 g	12	367-02	347-030-400	317-020-600	337-020-200	962-632
5 g	16	367-03	347-030-400	317-030-600	337-030-200	962-633
10 g	20	367-04	347-050-400	317-040-600	337-040-200	962-634
20 g	25	367-05	347-050-400	317-050-600	337-050-200	962-635
50 g	30	367-06	347-070-400	317-060-600	337-060-200	962-636
100 g	50	367-07	347-070-400	317-070-600	337-070-200	962-637
200 g	100	367-08	347-080-400	317-080-600	337-080-200	962-638
500 g	250	367-09	347-090-400	317-090-600	337-090-200	962-639
1 kg	500	367-11	347-110-400	317-110-600	337-110-200	962-641
2 kg	1000	367-12	347-120-400	317-120-600	337-120-200	962-642

Class M3 · Individual weights, knob and cylindrical shape, lacquered cast iron

Test weight material: cast iron

Weight Tol +/-		Individual weight, knob and cylindrical shape	DAkkS certificate	
		KERN	KERN	
100 g*	0,05	366-91	962-637	
200 g*	0,10	366-92	962-638	
500 g**	0,25	366-93	962-639	
1 kg**	0,50	366-94	962-641	
2 kg**	1,0	366-95	962-642	
5 kg**	2,5	366-96	962-643	
10 kg**	5,0	366-97	962-644	



Class M3 · Block weights, lacquered cast iron

Block weight material: cast iron, surface and edges refined

Weight	Tol +/- g	Block weight, cast iron	Aluminium protected box	DAkkS certificate
		KERN	KERN	KERN
5 kg	2,5	366-86	346-060-600	962-643
10 kg	5,0	366-87	346-070-600	962-644
20 kg	10	366-88	346-080-600	962-645
50 kg	25	366-89	346-090-600	962-646

Class M3 · ECO Block weights, lacquered cast iron

ECO Block weight material: lacquered cast iron, surface and edges machined

Weight	Tol +/- g	ECO block weight, cast iron	Aluminium protected box	DAkkS certificate
		KERN	KERN	KERN
5 kg	2,5	366-76	346-060-600	962-643
10 kg	5,0	366-77	346-070-600	962-644
20 kg	10	366-78	346-080-600	962-645
50 kg	25	366-79	346-090-600	962-646

Class M3 · Weight sets, knob and cylindrical shape, stainless steel and lacquered cast iron

Test weight material: \leq 50 g stainless steel, \geq 100 g cast iron

Weight		Knob and cylindrical shape, in wooden block	DAkkS certificate
		KERN	KERN
	1 g – 1 kg	362-96	962-619
	1 g – 2 kg	362-97	962-620
	1 g – 5 kg	362-98	962-621
	1 g - 10 kg	362-99	962-622



Individual weights ≤ 50 g



Individual weights 100 g and 200 g



Individual weights ≥ 500 g

17

Tweezers, weight grips, gloves, dusting brush



Tweezers to be able to safely grip small test weights				
For class	For weight	Length	Version	KERN
E1 - M3	1 mg - 200 g	105 mm	Stainless steel with silicone-coated tips	315-243
E1 - M3	500 g - 2 kg	250 mm	■ Stainless steel with silicone-coated tips	315-245
E1 - M3	≤ 5 g	130 mm	☑ Stainless steel, curved, high-quality plastic tips	315-246
E1 - M3	≤ 5 g	136 mm	Stainless steel, straight, high quality plastic tips	315-247
E1 - M3	≤ 200 g	225 mm	Stainless steel, straight, high-quality plastic tips, with a special shape for gripping weights of various shapes and sizes	315-248
F2 - M3	1 mg - 200 g	100 mm	5 Stainless steel	335-240
E1 – M3	1 mg - 200 g	100 mm	6 Plastic	315-242

Weight grip plastic coated		
For class	for knob shaped weights	KERN
E1 - M3	2 kg	315-273
E1 - M3	5 kg	315-274
E1 - M3	10 kg	315-275
F1 - M3	20 kg	315-276



II not appropriate for cast iron weights



Gloves

cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.

KERN 317-280



Gloves

leather/cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc. Ideal for test weights from 2 kg

KERN 317-290



Premium gloves

Nylon, 1 pair.

Particularly elastic, one size fits all, with special fingertip coating to ensure a safe grip. Helps to protect the test weights in everyday use from grease from fingers, damp etc.

KERN 317-281



Dusting brush

to clean the weights

KERN

318-270



Bellows

for cleaning weights

KERN

318-271



Microfibre cloth

for cleaning weights

KERN

318-272

Boxes for individual weights





For weights ≤ 500 g, OIML class E1 - F1

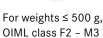
For weights ≥ 1 kg, OIML class E1 - F1

Case material: Wood, lined, suitable for single weights, KERN-Nr. 307, 316, 317, 326, 327

- F1







For weights $\geq 1 \text{ kg}$, OIML class F2 - M3

Case material: Wood, not lined, suitable for single weights, KERN-Nr. 337, 347, 357, 367 II not suitable for cast iron weights



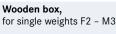


For test weights ≥ 10 kg, OIML class F1 - M1

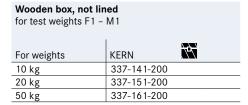
Case material: Wood, lined/not lined, suitable for single weights, KERN-Nr. 327, 337, 347 II not suitable for cast iron weights

Wooden box, lined
for single weights E1

	I	
For weights	KERN	
mg	338-090-200	
1 g	317-010-100	
2 g	317-020-100	
5 g	317-030-100	
10 g	317-040-100	
20 g	317-050-100	
50 g	317-060-100	
100 g	317-070-100	
200 g	317-080-100	
500 g	317-090-100	
1 kg	317-110-100	
2 kg	317-120-100	
5 kg	317-130-100	
10 kg	317-140-100	
20 kg	317-150-100	
50 kg	317-160-100	·



	1	
For weights	KERN	
mg	338-090-200	
1 g	337-010-200	
2 g	337-020-200	
5 g	337-030-200	
10 g	337-040-200	
20 g	337-050-200	
50 g	337-060-200	
100 g	337-070-200	
200 g	337-080-200	
500 g	337-090-200	
1 kg	337-110-200	
2 kg	337-120-200	
5 kg	337-130-200	
10 kg	337-140-200	
20 kg	337-150-200	
50 kg	337-160-200	



Wooden box, lined for test weights F1 - M1 / **KERN** For weights 337-141-100 10 kg 20 kg 337-151-100

337-161-100





For weights ≤ 5 kg, OIML class E1 - M3

Case material: Aluminium protected, lined, suitable for single weights, KERN-Nr. 307, 316, 317, 326, 327, 337, 347, 357, 367 II not suitable for cast iron weights



For weights ≤ 10 kg, OIML class E1 - M3

Case material: Aluminium protected, lined, suitable for single weights, KERN-Nr. 307, 316, 317, 326, 327, 337, 347, 357, 367 II not suitable for cast iron weights



50 kg

For block weight ≥ 5 kg, OIML class F1 - M3

Case material: Aluminium protected, lined, suitable for block weights, KERN-Nr. 326, 336, 346, 356, 366

Aluminium protected box, lined

for individual weights, knob and compact shape, class E1 - M3

Class E1 - IVIS		
For weights	KERN	₽
Individual weight, mg	317-009-600	
1 g	317-010-600	
2 g	317-020-600	
5 g	317-030-600	
10 g	317-040-600	
20 g	317-050-600	
50 g	317-060-600	
100 g	317-070-600	
200 g	317-080-600	
500 g	317-090-600	
1 kg	317-110-600	
2 kg	317-120-600	
5 kg	317-130-600	

Aluminium protected box, lined

for individual weights, knob and compact shape, class E1 - M3

For weights	KERN	回
10 kg	317-140-600	
20 kg	317-150-600	
50 kg	317-160-600	

Aluminium protected case, lined for individual weights F1 - M3

For weights	KERN
5 kg	346-060-600
10 kg	346-070-600
20 kg	346-080-600
50 kg	346-090-600

Carrying cases/boxes for individual weight sets

Individual weight sets:

You can create your own "tailor-made" individual weight sets yourself. KERN will customise your own personal wooden box/plastic carrying case. The largest individual weight which will fit is given in the table.

Sample order:

Your individual weight set:

 1×50 g, 2×100 g, 1×500 g, 2×1 kg, 1×2 kg.

The correct individual box is KERN-Nr. 313-080-400 (plastic) or **KERN-Nr. 315-070-100** (wood, not lined)



Plastic case

for individual weight sets classes E1 - M3, not appropriate for cast iron weights

Largest possible weight	KERN
≤ 500 g	313-050-400
≤ 5 kg	313-080-400



lined, for individual weight sets classes E1 - F1 * with side handles

Largest possible weight	KERN (1)
≤ 200 g	315-040-100
≤ 1 kg	315-060-100
≤ 2 kg	315-070-100
≤ 5 kg*	315-080-100
≤ 10 kg*	315-090-100



Wooden case not lined, for individual weight set classes F2-M3, not appropriate for cast iron weights * with side handles

Largest possible weight	KERN (XXX)
≤ 200 g	335-040-200
≤ 500 g	335-050-200
≤ 1 kg	335-060-200
≤ 2 kg	335-070-200
≤ 5 kg*	335-080-200
≤ 10 kg*	335-090-200

Fig. shows 313-010-600

Carrying cases for standard weight sets



Plastic case for weight sets

with standard denomination classes E1 - M3, not appropriate for cast iron weights

Largest possible weight	KERN
≤ 500 g	313-052-400
≤ 5 kg	313-082-400



Aluminium protected case for safe storage and transportation under harsh industrial conditions.

Aluminium protected case

for weight sets with standard denomination classes E1 - M2 *1 front handle; **2 side handles; ***no handle

For weights	For class	KERN
1 mg - 500 mg	E1 - M1	313-010-600*
1 mg - 50 g	E1 - M1	313-020-600*
1 mg - 100 g	E1 - M1	313-030-600*
1 mg - 200 g	E1 - M1	313-040-600*
1 mg - 500 g	E1 - M1	313-050-600*
1 mg - 1 kg	E1 - M1	313-060-600*
1 mg - 2 kg	E1 - M1	313-070-600**
1 mg - 5 kg	E1 - M1	313-080-600***
1 mg - 10 kg	E1 - M1	313-090-600***
1 g - 50 g	E1 - M2	314-020-600 *
1 g - 100 g	E1 - M2	314-030-600 *
1 g - 200 g	E1 - M2	314-040-600 *
1 g - 500 g	E1 - M2	314-050-600 *
1 g - 1 kg	E1 - M2	314-060-600 *
1 g - 2 kg	E1 - M2	314-070-600 *
1 g - 5 kg	E1 - M2	314-080-600 ***
1 g - 10 kg	E1 - M2	314-090-600 ***



Weight containers for rectangular weights or other test weights, stainless steel glass bead blasted, adjusted to OIML class M1

Preconfigured weight containers for testing high-load floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the balance in one go, saving you time and money. The weight container is adjusted to OIML accuracy class M1. Other OIML accuracy classes are also available, please ask.

Weight of the weight container, OIML class M1	Tol +/- g	Possible equipment, rectangular weights, OIML class M1	Maximum total weight (weight container incl. weights)	Price (weight container excluding weights)
20 kg	1,0	5 × 20 kg	120 kg	346-022-005
40 kg	1,5	8 × 20 kg	200 kg	346-042-008
50 kg	2,5	10 × 20 kg	250 kg	346-052-010
50 kg	2,5	4 × 50 kg	250 kg	346-055-004
50 kg	2,5	9 × 50 kg	500 kg	346-055-009
60 kg	3,0	8 × 50 kg and 2 × 20 kg	500 kg	346-065-009



Weight of the weight container, OIML class M1	Tol +/- g	Possible equipment, test weights, OIML class M1	Maximum total weight (weight container incl. weights)	
20 kg	1,0	max. 10 × 10 kg or 5 × 20 kg	120 kg	347-022-005
40 kg	2,0	max. 16 × 10 kg or 8 × 20 kg	200 kg	347-042-008
50 kg	2,5	max. 20 × 10 kg or 10 × 20 kg	250 kg	347-052-010
60 kg	3,0	max. 22 × 20 kg	500 kg	347-062-022



Individual weight containers for rectangular weights or other test weights, calibrated to OIML class M1

Individual weight carriers for testing high capacity floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the scale in one go, saving time and money.

The weight container can be calibrated to OIML accuracy classes M1 – M3. On request, KERN will make you a "tailor-made" weight carrier to your specifications.

Example:

9 block weights each 50 kg, class M1 = 450 kg1 weight container each 50 kg, class M1 = 50 kgTotal = 500 kg

Weight of the weight container, OIML class M1	
	KERN
Individual weight container for rectangular weights	346-000-000
Individual weight container for test weights	347-000-000



Example illustration

17

DAkkS Calibration Service/Verification service

The DAkkS (German accreditation body)

The DAkkS is the national accreditation body of the Federal Republic of Germany. According to Regulation (EC) No. 765/2008 and the Accreditation Body Act (AkkStelleG), the DAkkS acts in the public interest as the sole service provider for accreditation in Germany.

In order to be able to fulfil its sovereign accreditation tasks, the DAkkS was entrusted by the Federal Government. As an entrusted body, the DAkkS is subject to federal supervision.

Only an accredited calibration laboratory can issue a DAkkS calibration certificate. This defines not only the measuring method as well as the measuring result, but also gives information on tracing the test medium to national standards and the relevant uncertainty of measurement.

- > You are certified to ... ISO 9001, QS 9000, GLP, GMP, TS16949
- You need ...
 to control your measuring equipment

Our solution ...

 DAkkS calibration certificate; (traceability, measuring uncertainty, internationally recognised)

KERN - Precision is our business

The KERN calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force measurement in Europe.

Thanks to the high level of automation, we can carry out DAkkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Do you have any further requests or questions on this matter? We would be pleased to help you or visit us on the web at www.kern-lab.com

DAkkS calibration

Why? DAkkS calibration is always necessary when checking equipment (balance or test weight) is to be used in a QM process (e.g. to ISO 9000ff, GS 9000, TS 16949, VDA 6.1, FDA, GLP, GMP, GMP etc.)

What? Any checking equipment in proper condition can be DAkkS calibrated

How? Determination of accuracy throughout the world by a laboratory which is accredited to DIN EN ISO 17025. Traceability to internationally recognised standards. The DAkkS calibration certificate confirms both the measurement characteristics of the checking equipment and the general requirements for the control of checking equipment.

Where? Internationally recognised – this is monitored by ILAC (International Laboratory Accreditation Cooperation) and e.g. DAkkS (German calibration service) in Germany

When? The operator control the use of checking equipment and periodic recalibration time intervals themselves

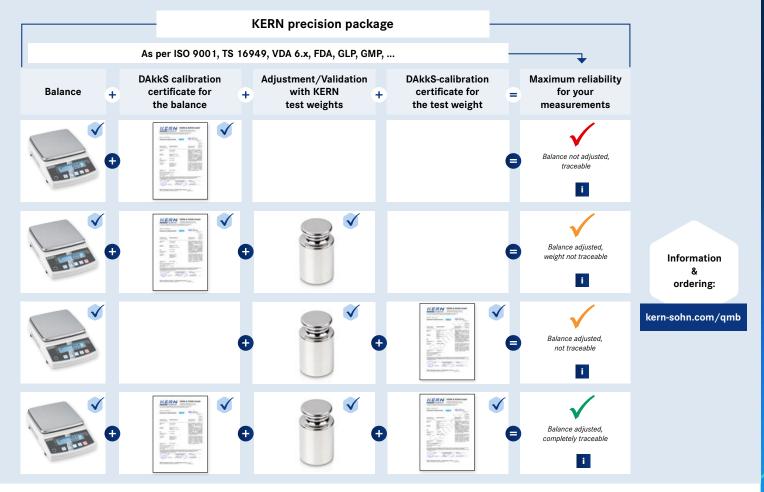
Range of services:

- DAkkS calibration of balances with a maximum load of up to 50.000 kg
- DAkkS calibration of weights in the range of 1 mg - 2.500 kg. Calibrations can be carried out in the following classes: E1, E2, F1, F2, M1, M2, M3
- DAkkS calibration of force gauges and force transducers
- Volume determination for weights of accuracy class E1
- Measuring of sensitivity (magnetic characteristics)
- Factory calibration in various sizes:
- Force (sensors and measuring devices), hardness (Shore, UCI, Leeb, etc.), thickness of coatings and walls, torque wrench testing devices, and much more
- Conformity assessments and recalibration of balances and weights at the KERN verification point, working closely with the verification authorities

And on top of all these services, we also offer additional services – see page 204/205.

Balance & weight in the quality management system

Do you already use all the modules of the KERN precision package for maximum accuracy and reliability of your balance?



The KERN calibration laboratory (D-K-19408-01-00)

KERN has a highly-automated DAkkS laboratory with accreditation to DIN EN ISO/IEC 17025 in the field of balances, test weights and force measurement. By using the most modern calibration technology with high-end calibration robots in fully air-conditioned laboratories, the measurement uncertainty and process times are reduced to a minimum, and also the quality of the calibration is increased.

As an accredited and certified calibration service provider with decades of experience, KERN offers you an extensive range of services, which will leave no demand unfulfilled. The accreditation applies to the extent specified in the appendix to the certificate D-K-19408-01-00.

We offer the following services:

Waagen: DAkkS calibration up to 50 t Minimum sample weight (in use) Usage accuracy Adjustment at the location of installation Certificate of conformity Equipment qualification: Installation qualification (IQ) Function qualification (OQ) Performance qualification (PQ) Maintenance qualification (MQ) Verification

Weights:

- ➤ DAkkS calibration up to 2.5 t (OIML classes E1 – M3)
- ► Volume determination for OIML class E1
- Measuring of sensitivity (magnetic characteristics)
- ▶ Verification

Force measuring devices and force transducers:

► DAkkS calibration up to 5 kN

Factory calibration for:

- ► Force measuring devices and force transducers ≤ 250 kN
- ► Hardness
- ► Layer thickness
- ► Material thickness
- ► Temperature of moisture analysers

Our commitment to satisfy our customers never stops. Perhaps this is one of the reasons why our roots can perhaps be traced so far back in history. **Discover the KERN route to success: fast - competent - reliable - versatile!**

The order process

0

You will receive a **reminder** that your test equipment is due or you will generate online a quotation for new or existing test equipment



Submission or collection of your test equipment



Initial inspection of your goods, to check that they are suitable for calibration, and are complete, etc.



You will get a detailed order confirmation



Our experts will carry out initial calibration



Checked for conformity with required tolerances and if required, any necessary actions which arise from this are carried out



Before these actions are carried out, we will contact you (in so far as no individual processing has been agreed with you beforehand)



After your approval the necessary actions will be implemented and the calibration will be completed



After that your test equipment will be returned to you without delay, together with the appropriate calibration certificates



We will monitor your recalibration periods and will send you a reminder about your next calibration, free of charge

Our service



► Reminder service

The continuous cyclic recalibration of your checking equipment is an integral part of the reliable management of test equipment. You can rely on us to support you, and we will remind you in time, free of charge, when the next recalibration is due. In addition, you have the option of managing your test equipment online by yourself (cf. 1, 10).

► Quote generator

You will be impressed by our price-to-performance ratio. Request a non-binding quotation or create it yourself to suit your specifications at www.kern-lab.com (cf. 1)

► Collection service

We will be pleased to arrange a pick up by our forwarding agent the goods from your premises. You only need to tell us the weight and dimensions of your package and leave the rest to us (cf. 2)

► Repair and reconditioning of balances and weights

KERN will get your weights back up to standard, regardless of the manufacturer. Whether it is adjustment, marking, sand blasting or lacquering - the aim here is compliance and long-term stability. Any repairs of balances and instruments which may be necessary can be carried out quickly and easily (cf. 5 6)

► Individual processing

In order to avoid delays with future orders, we would be pleased to incorporate your individual requirements for future processing of such calibration results. Even for smaller issues such as the printing of calibration certificates (stapling, punching, double-sided) we can work to your requirements (cf. 3).

► Express service and dispatch

If you need a particularly fast service, you can use your DAkkS express service. You will receive your test equipment after only 2 days (cf. ②).

www.kern-lab.com – the central portal for everything you need to know about the extensive KERN calibration services

On our website you will always find the latest news and useful information about testing and measuring devices, calibration, legal metrology and expansions to our range of services. You will also find numerous online services on the website.

Database supported management of test equipment

Information on your test equipment which has been calibrated by us is stored in our database. In this way it is possible to make trend calculations. You will therefore get an overview about the long-term stability and trend behaviour of your test equipment as well as the necessary recalibration period can easily be determined and specified.

Paperless documentation

So there is no administrative effort, we can handle all calibration documentation in a paperless process. From quotation, through to order confirmation, delivery note and invoice right up to calibration certificate, you will receive all documents by e-mail or you can retrieve them online. Would you prefer to receive your certificate or your invoice in paper form, for example? Of course this is not a problem either. We will send you everything you require by post.

Calibration certificate download

By using our download service you can easily download your calibration certificates as soon as the calibration work is complete and you will have access to them at any time in the future. Simply create your user account on www.kern-lab.com and you will never have to look for your certificates again.



DAkkS Calibration of balances

Any balance will only give correct results if it is checked regularly, i.e. calibrated correctly and adjusted when required. A balance is only a reliable measuring and checking tool if it is calibrated and this calibration is documented. The issued DAkkS calibration certificates are proof of the metrological traceability to national and international standards, as required by the DIN EN ISO 9000 and DIN EN ISO/IEC 17025 standards, amongst others. KERN recommends a recalibration period of one year. The standard does not give a defined recalibration period. KERN recommends that, with intensive (daily) use, you to recalibrate your balance every 6 months and at normal (weekly) use, every 12 months.



THE ADVANTAGES OF USING THE KERN ON-SITE CALIBRATION:

- + Calibration on-site at your premises in the field of use
- + No risk of damage during transportation
- + Low downtime
- + Cross-brand servicing, basic inspection and adjustment by a specialist
- + You tell us when you would like us to come
- + Device training for qualified users



a) KERN on-site calibration (we visit you)

In Germany, KERN has a close-knit network of KERN DAkkS calibration laboratory employees, who can carry out on-site calibration of balances up to 50 tonnes.

This on-site testing service is metrologically recommended, as your balance is in its field of use and can be calibrated without any possible transportation problems.

Lower downtime and personal contact with our expert are the major benefits of this service.

Preparatory maintenance work by agreement. Prices for on-site calibration on request.

You tell us when you would like us to come, giving us details of the balances to be tested. Our on-site DAkkS calibration team will then get in touch with you immediately and will discuss the process with you at your premises – it's straight forward and professional.

This KERN calibration service is also independent of the brand.

Please feel free to contact us at Phone +49 7433 9933-400 or E-Mail: testservices-onsite@kern-sohn.com

THE ADVANTAGES OF USING THE KERN IN-HOUSE CALIBRATION:

- + Short calibration time: Test time in the laboratory is only four working days
- + Competence: Calibration laboratory, which complies with the highest standards in the area of metrology
- + **Independent management** of the recalibration calendar for your individual measuring instrument is possible
- + Cross-brand service: Measuring devices from any manufacturer can be calibrated independently
- + Repair: Any necessary repairs can be carried out immediately, if you wish





b) Calibration at the KERN factory (you send your balance to us)

Recommended for new devices and for balances which can be affordably transported, as then there is no need for us to travel to carry out the calibration on-site. Repairs can be carried out at the same time, quickly and in full.

The process would be as follows:

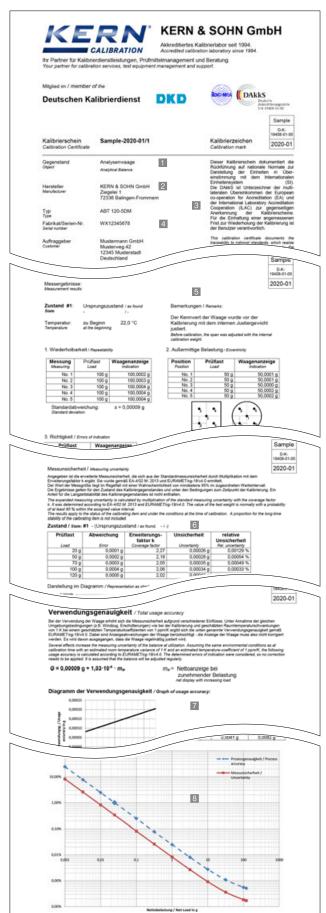
Day 1: Send your balance to the KERN calibration laboratory in Balingen.

Day 2 to 3: Evaluation and calibration of your balance by our specialists.

Day 4: After positive validation, your balance

is returned.

Please feel free to contact us at Phone +49 7433 9933-400 or E-Mail: recalibration-balances@kern-sohn.com



DAkkS calibration certificate for balances (extract)

To get reliable weighing results you need to have calibrated balances. KERN offers you an extensive calibration service for your balances – you have the choice:

Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements.
- We would recommend that you recalibrate your balances every 6 months if they are used intensively, and every 12 months with normal use.
- The KERN calibration service is independent of the brand.





Initial calibration and recalibration of balance at the KERN factory	KERN
Weighing capacity	
Analytical balances	
$[Max] \le 5 \text{ kg}$	963-101
[Max] > 5 kg	963-102
Precision balances/Industrial scales	
[Max] ≤ 5 kg	963-127
[Max] > 5 kg - 50 kg	963-128
[Max] > 50 kg - 350 kg	963-129
[Max] > 350 kg - 1500 kg	963-130
$[Max] > 1500 \text{ kg} - 2900 \text{ kg}^{-1}$	963-131
$[Max] > 2900 \text{ kg} - 6000 \text{ kg}^{-1}$	963-132
[Max] > 6000 kg - 12000 kg ¹⁾	963-133
Hanging scales/Crane scales	
[Max] ≤ 5 kg	963-127H
[Max] > 5 kg - 50 kg	963-128H
[Max] > 50 kg - 350 kg	963-129H
[Max] > 350 kg - 1500 kg	963-130H
[Max] > 1500 kg - 2900 kg	963-131H
[Max] > 2900 kg - 6000 kg	963-132H
[Max] > 6000 kg - 12000 kg ³⁾	963-133H
Preparation for recalibration (cleaning, adjustment, function test)	969-003R
Additional services	
Minimum weight of sample (for details see p. 206)	969-103
Additional measurement points (as part of the) weighing test	963-140
Additional measurement points (as part of the) repeatability testing	963-140
DAkkS Express service with delivery time 48 hours (only on initial purchase, details see p. 210)	962-116
Express shipping: Express supplement for guaranteed delivery on the next working day (if ready for shipment before 12:00 noon)	962-115 in GER only (other countries on request)

¹⁾ Floor scales & axle load scales only (Price per weighing panel). Please ask for further details.

- Official document
- Item to be calibrated
- 18 Traceability, see page 217
- Identification/Applicant
- 5 Metrological component
- © Uncertainty of measurement, see page 217
- Application accuracy, see page 215
- Minimum weight of sample

(additional price)

²⁾ On request

³⁾ Processing time 4 working days

⁴⁾ Processing time 15 working days

Minimum weight of sample (in use)

What is the lightest item you can weigh on your balance, while still achieving accurate and reliable weighing results? What exactly is the limit?

The KERN minimum sample weight protocol accounts for the established minimum sample weight of your balance and its location of installation and use with the relative measuring uncertainty. With various safety coefficients and required weighing accuracy (process accuracy), depending on standard or quality-related requirements on the balance being used.

The higher the selected safety coefficient, the higher the safety when using the balance in a particular process. Typical perturbations when using the balance e.g. small fluctuations in temperature are taken into account. In easily predictable conditions in a professional environment of use, KERN recommends a safety coefficient of 3. For critical processes, a correspondingly higher factor should be selected. The minimum sample weight protocol contains a diagram as well as a table, from which you can ascertain the minimum sample weight for your balance, depending on the process.

Adjustment at the location of installation

Why?

Adjustment at the location of installation is necessary, as the measuring results of balances depend on the local gravitational force (gravitational acceleration) and therefore depend on the location of use. KERN can carry this out just before shipping at the factor, individually to suit the location of installation.

What are the advantages of carrying out adjustment at the location of installation?

- The balance gives reliable measurement results at the location of installation.
- No time-consuming on-site adjustment necessary.
- You do not need a Service Engineer or any additional weights.
- The balance is ready for immediate use.

Pricing table for adjustment at the location of installation

Weighing capacity	KERN	
[Max] ≤ 5 kg	961-247	
[Max] > 5 - 50 kg	961-248	
[Max] > 50 - 350 kg	961-249	
[Max] > 350 - 1500 kg	961-250	
[Max] > 1500 - 2900 kg	961-251	
[Max] > 2900 - 6000 kg	961-252	
[Max] > 6000 - 12000 kg	961-253	

For adjustment to the location of installation you need the value for gravitational acceleration at the location of installation, which KERN can calculate using the point of use. The procedure is suitable for balances with a resolution of <60,000 d. For higher resolutions we recommend a balance with an internal adjusting weight or adjustment with a calibrated adjusting weight at the location of installation.

Certificate of conformity

With a certificate of conformity you get a statement about whether the balance meets your defined requirements.

In conjunction with a DAkkS calibration certificate it serves as documented proof that the balance fulfils the required process demands. When doing this the process owner for the balance can select from different temperature specifications – depending on its individual requirements:

Conformity evaluation on the basis of the:	KERN		
Usage accuracy*	relative absolute	969-511 969-512	
Calibration results*	relative absolute	969-513 969-514	
Measurements as manufacturer or customer specification	Foreign device Customer specifications KERN devices	969-515 969-516 969-517	

relative = % / absolute = g

*as attachment to the DAkkS calibration certificate (Details see www.kern-lab.com)

Example for absolute customer tolerance (absolute) (Item no. 969-511):

No.	Tare	Load	Display	Deviation	Uncertainty	Customer tolerance	Conformity ¹⁾
1	0 g	500 g	500,00 g	0,00 g	± 0,013 g	± 0,05 g	$\overline{\checkmark}$
2	0 g	1000 g	1000,00 g	0,00 g	± 0,015 g	± 0,05 g	V
3	0 g	1500 g	1500,01 g	0,01 g	± 0,017 g	± 0,05 g	$\overline{\mathbf{V}}$
4	0 g	2000 g	2000,01 g	0,01 g	± 0,020 g	± 0,10 g	V
5	0 g	3000 g	3000,02 g	0,02 g	± 0,022 g	± 0,10 g	v

1) Evaluation criteria: |[Deviation]| + [extended measuring uncertainty] ≤ [tolerance]

Documented quality of your balances in the log book

Consistently high product quality requires the use of measuring and test equipment that provides comprehensible, consistent and reproducible results. Hence, quality management systems require that measuring and test equipment produces a detailed traceable description and documentation of calibration results and conformity statements. Work not documented is work not done.

Equipment qualification is documentary evidence that a equipment is suitable for the intended purpose and is working faultlessly. A balance log book is used to record all activities and results required for the qualification and monitoring of balances during routine operation. This includes the installation and commissioning of the balances, routine tests, maintenance as well as the recording of special events (failures, repairs, change of location).

The structure of the balance log book is based on the qualification process of the balance. The requirements for the qualification system such as DIN EN ISO 9001, DIN EN ISO/IEC 17025, GLP/GMP, VDA must be taken into account. The log book supports the user in his/her daily work with the balance and is meant to serve as necessary evidence during inspections and audits. The responsibility for maintaining the log book and its appropriate use is to be borne by the user.

Our proposal: Count on our support!

KERN offers this qualification concept throughout. Our validation services are carried out on the spot by technicians of our calibration laboratory and comprise among other things: installation, measurement test inclusive DAkks calibration certificate as well as records in your qualification log book.

We give you advice already when selecting a new device, for example KERN ADB/ADJ, ALS/ALJ, ABS/ABJ, ACJ, ABT, ABP, PLS/PLJ, PNS/PNJ, EG-N, PBS/PBJ, PES/PEJ, about the options of device qualification, as required and will be happy to set up an appointment for qualification at the place of installation. We offer individual calibration and maintenance agreements for the periodically required requalification.

Further information can be found at www.kern-lab.com



Installation qualification (IQ)

All steps to be taken for the installation and commissioning of the equipment are described in detail in the installation qualification. These include among others:

- checking for completeness of delivery and assurance that the delivered equipment meets the required specifications
- a description of the ambient conditions at the place of installation
- proper installation and assurance that the equipment is ready for operation after installation
- documentation of equipment configuration and equipment settings
- · Recording and installation of connected peripherals units



Function qualification (OQ)

The operational qualification describes the metrological test performed for the balance at the place of installation. In the course of this all parameters that define the efficiency of a measurement will be checked. Functional qualification is carried out with the help of a standard operating procedure (SOP) and recorded in a calibration certificate. The OQ must be carried out by trained staff with the help of qualified aids (such as certified weights that are traceable to an approved standard). Briefing / training of users must be assured and recorded in the OQ.



Performance qualification (PQ)

The PQ represents documented evidence that the balance or weighing system functions in the selected application as intended. This will be assured by a qualification test of the equipment under real conditions with respect to its surroundings and the problem definition (such as traceable data transmission). If the balance or weighing system is "merely" to be used for weighing it will not be necessary to carry out a PQ as the ability to function has already been proven during the metrological test (OQ).



Maintenance qualification (MQ)

The periodical maintenance, cleaning work and complete metrological test of the balance/weighing system is documented in the MQ by a trained authorised engineer. The results are documented on a DAkkS calibration certificate. Maintenance is carried out with the help of a maintenance schedule.



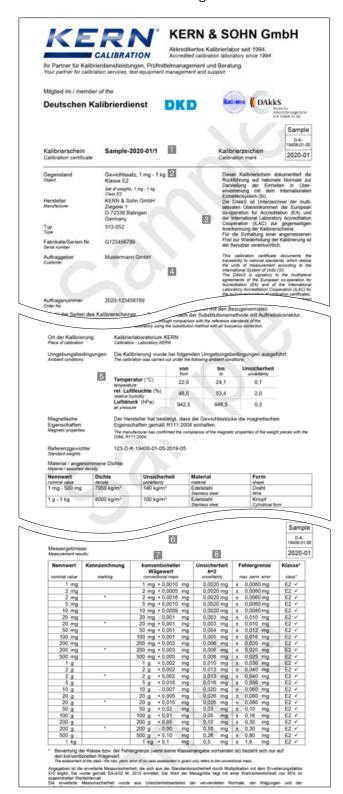


If you are interested in a training for equipment qualification, please feel free to contact us

at +49 7433 9933-400

or testservices-onsite@kern-sohn.com

18



DAkkS calibration certificate for test weights (extract).

For more details on our calibration service and other useful information, please see the internet at www.kern-lab.com

- Official document
- Item to be calibrated
- Traceability, see page 217
- Identification/Applicant
- Environmental conditions
- Metrological component
- Conventional mass
- Uncertainty of measurement, see page 216

Traceable KERN test weights -

Calibration of test weights

Calibrated measuring equipment requires calibrated checking equipment. For balances, these are calibrated test weights, also called "standard weights".

KERN will calibrate your test weights

- In all classes with permissible error limits E1-M3 according to OIML R111:2004 (for tolerance tables, see page 180), in sizes 1 mg to 2500 kg.
- · With free nominal value
- Newton (N)
- · Independent of design (special designs)

The advantages of using the KERN in-house calibration

You send your test weights to us.

- Excellent price performance ratio
- The quickest processing time
- DAkkS standard service: 4 working days
- DAkkS express service: 48 hrs (new weights)
- The most modern calibration methods with robot controlled comparators allow the most accurate calibration results and fastest throughput time
- KERN DAkkS calibration certificates are internationally recognised
- · A calibration service which is independent of the brand
- KERN also reconditions existing customer weights (e.g. cleaning or readjustment)
- On request, we can also provide a pick-up and collection service with our parcel service

The advantages of using the KERN on-site calibration

We visit you.

We would be pleased to visit you within Germany and carry out the calibration of your reference standards to OIML classes M1–M3, 10 kg–2500 kg with permissible error limits, using our mobile MACOS system. Minimized downtime of your checking equipment and direct contact with our expert are the major benefits of this service. Price on request.

Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements
- In terms of standardisation, no particular recalibration interval is specified
- We would recommend that you recalibrate your test weights every six months if they are used intensively, and every 12 months with normal use
- · We would be pleased to monitor your recalibration schedule

Class acc. →	E1 with volume determination	E1 without volume determination	E2	F1/F2 * F2 only	M1/M2/M3
Nominal value	KERN	KERN	KERN	KERN	KERN
1 mg	_	962-251R	962-351R	962-451R	962-651R
2 mg	_	962-252R	962-352R	962-452R	962-652R
5 mg	_	962-253R	962-353R	962-453R	962-653R
10 mg	_	962-254R	962-354R	962-454R	962-654R
20 mg	_	962-255R	962-355R	962-455R	962-655R
50 mg	_	962-256R	962-356R	962-456R	962-656R
100 mg	_	962-257R	962-357R	962-457R	962-657R
200 mg	_	962-258R	962-358R	962-458R	962-658R
500 mg	_	962-259R	962-359R	962-459R	962-659R
1 g	963-231	962-231R	962-331R	962-431R	962-631R
2 g	963-232	962-232R	962-332R	962-432R	962-632R
5 g	963-233	962-233R	962-333R	962-433R	962-633R
10 g	963-234	962-234R	962-334R	962-434R	962-634R
20 g	963-235	962-235R	962-335R	962-435R	962-635R
50 g	963-236	962-236R	962-336R	962-436R	962-636R
100 g	963-237	962-237R	962-337R	962-437R	962-637R
200 g	963-238	962-238R	962-338R	962-438R	962-638R
500 g	963-239	962-239R	962-339R	962-439R	962-639R
1 kg	963-241	962-241R	962-341R	962-441R	962-641R
2 kg	963-242	962-241R 962-242R	962-342R	962-442R	962-642R
	963-243	962-243R	962-343R	962-443R	962-643R
10 kg	963-244	962-244R	962-344R	962-444R	962-644R
20 kg	963-245	962-244R 962-245R	962-344R 962-345R	962-445R	962-645R
50 kg	963-246	962-246R	962-346R	962-446R	962-646R
100 kg	903-240	902-240K	902-340K	962-591R*	962-646R 962-691R
200 kg	-	-	_	962-592R*	
500 kg	_	-	-	962-593R*	962-692R
1000 kg	-	-		902-393K**	962-693R
	-	_	_	_	962-694R
2000 kg 1 mg-500 mg	-	962-250R	- 0(2.250D	962-450R	962-695R
1 mg-50 g			962-350R	962-450R 962-401R	962-650R
1 mg-50 g	963-201 963-202	962-201R 962-202R	962-301R 962-302R	962-401R 962-402R	962-601R
					962-602R
1 mg-200 g 1 mg-500 g	963-203	962-203R	962-303R	962-403R	962-603R
	963-204	962-204R	962-304R	962-404R	962-604R
1 mg-1 kg	963-205	962-205R	962-305R	962-405R	962-605R
1 mg-2 kg	963-206	962-206R	962-306R	962-406R	962-606R
1 mg-5 kg	963-207	962-207R	962-307R	962-407R	962-607R
1 mg-10 kg	963-208	962-208R	962-308R	962-408R	962-608R
1 g-50 g	963-215	962-215R	962-315R	962-415R	962-615R
1 g-100 g	963-216	962-216R	962-316R	962-416R	962-616R
1 g-200 g	963-217	962-217R	962-317R	962-417R	962-617R
1 g-500 g	963-218	962-218R	962-318R	962-418R	962-618R
1 g-1 kg	963-219	962-219R	962-319R	962-419R	962-619R
1 g-2 kg 1 g-5 kg	963-220	962-220R	962-320R	962-420R	962-620R
1 8-2 KA	963-221	962-221R	962-321R	962-421R	962-621R

Additional costs for preparation, overhaul and adjustment before the calibration	KERN	
Preparation of weights (e.g. cleaning, etc.)		
Single weight	969-001R	
Weight set	969-002R	
Subsequent services are carried out after confirmation		
Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging, adjustment E1 (DAkkS only), E2)	969-005R	
Adjustment, per weight only available for weights with adjustment chamber (F1-M3)	969-010R	
Second calibration after adjustment or substitution, per weight		
Class E1	969-210R	
Class E1 incl. volume determination	969-211R	
Class E2	969-310R	
Class F1/F2	969-410R	
Class M1-M3	969-610R	
Testing of magnetic properties according to OIML R111:2004, per weight	961-115(R)	
Calibration of NON-OIML test weights, additional price per weight	-	

KERN DAkkS Express Service					
DAkkS standard service Class E2-M3	4 working days				
DAkkS standard service Class E1, 1 mg-500 mg, and recalibration 1 g-10 kg with a known volume	10 working days				
Class E1, ≥ 1 g, incl. volume determination (new weights)	15 working days				

DAkkS Express service in 48 hours 48 HRS except for class E1

- Urgent order is received at KERN by 12:00 noon at the latest
- Ready for shipping at KERN within two working days, at 12:00 noon
- · Return by standard parcel service or express shipping (Costs and processing time on request)
- · Additional cost for DAkkS Express Service, for each KERN test weight KERN KERN 962-115
- For Express shipping, see page 206

Class acc.	E2 with verification certificate	F1 with verification certificate	M1 with verification certificate	
011112 111112004	Continuate	oci illiodic	Continues	
Nominal value \$\square\$	KERN	KERN	KERN	
1 mg	952-351	952-451	952-651	
2 mg	952-352	952-452	952-652	
5 mg	952-353	952-453	952-653	
10 mg	952-354	952-454	952-654	
20 mg	952-355	952-455	952-655	
50 mg	952-356	952-456	952-656	
100 mg	952-357	952-457	952-657	
200 mg	952-358	952-458	952-658	
500 mg	952-359	952-459	952-659	
1 g	952-331	952-431	952-631	
2 g	952-332	952-432	952-632	
5 g	952-333	952-433	952-633	
10 g	952-334	952-434	952-634	
20 g	952-335	952-435	952-635	
50 g	952-336	952-436	952-636	
100 g	952-337	952-437	952-637	
200 g	952-338	952-438	952-638	
500 g	952-339	952-439	952-639	
1 kg	952-341	952-441	952-641	
2 kg	952-342	952-442	952-642	
5 kg	952-343	952-443	952-643	
10 kg	952-344	952-444	952-644	
20 kg	952-345	952-445	952-645	
50 kg	-	952-446	952-646	
1 mg-500 mg	952-350	952-450	952-650	
1 mg-50 g	952-301	952-401	952-601	
1 mg-100 g	952-302	952-402	952-602	
1 mg-200 g	952-303	952-403	952-603	
1 mg-500 g	952-304	952-404	952-604	
1 mg-1 kg	952-305	952-405	952-605	
1 mg-2 kg	952-306	952-406	952-606	
1 mg-5 kg	952-307	952-407	952-607	
1 mg-10 kg	952-308	952-408	952-608	
1 g-50 g	952-315	952-415	952-615	
1 g-100 g	952-316	952-416	952-616	
1 g-200 g	952-317	952-417	952-617	
1 g-500 g	952-318	952-418	952-618	
1 g-1 kg	952-319	952-419	952-619	
1 g-2 kg	952-320	952-420	952-620	
1 g-5 kg	952-321	952-421	952-621	
1 g-10 kg	952-322	952-422	952-622	

KERN verification delivery time	
Standard verification service Class E2 - M1	6 working days

Additional costs for preparation, overhaul and adjustment before the verification	KERN				
Preparation of weights (e	.g. cleaning	, etc.)			
Single weight	969-008R				
Weight set	969-009R				
Subsequent services are confirmation	carried out	after			
Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging, adjustment E2)	969-005R				
Adjustment, per weight only available for weights with adjustment chamber (F1/F2 – M1)	969-010R				
Verification after adjustment or substitution, per weight					
Class E2	969-310R				
Class F1/F2	969-410R				
Class M1	969-610R				

Verification prices for balances	Reverification	
	KERN	
Accuracy class I (precision balances) 1)		
$[Max] \le 5 \text{ kg}^{-1}$	950-101R	
[Max] > 5 kg ¹⁾	950-102R	
Accuracy class II (precision balances) 1)		
$[Max] \le 5 \text{ kg}^{-1}$	950-116R	
$[Max] > 5 kg - 50 kg^{-1}$	950-117R	
$[Max] > 50 \text{ kg} - 350 \text{ kg}^{-1}$	950-118R	
Accuracy class III-IV 1)		
Bench scales and industrial scales (excl. crane scales)		
$[Max] \le 5 \text{ kg}^{-1}$	950-127R	
$[Max] > 5 kg - 50 kg^{-1}$	950-128R	
$[Max] > 50 \text{ kg} - 350 \text{ kg}^{-1}$	950-129R	
$[Max] > 350 \text{ kg} - 1500 \text{ kg}^{-1}$	950-130R	
[Max] > 1500 kg - 2900 kg ¹⁾	950-131R	
$[Max] > 2900 \text{ kg} - 6000 \text{ kg}^{-1}$	950-132R	
Crane scales		
$[Max] > 50 \text{ kg} - 350 \text{ kg}^{-1}$	950-129HR	
[Max] > 350 kg - 1500 kg ¹⁾	950-130HR	
[Max] > 1500 kg - 2900 kg ¹⁾	950-131HR	
[Max] > 2900 kg - 6000 kg ¹⁾	950-132HR	
[Max] > 6000 kg - 12000 kg ¹⁾	950-133HR	

¹⁾ Processing time 4 working days, ²⁾ Processing time 15 working days, ¹⁾ Preparation of reverification of balances, 969-006R

Accredited calibration with DAkkS calibration certificate for force gauges

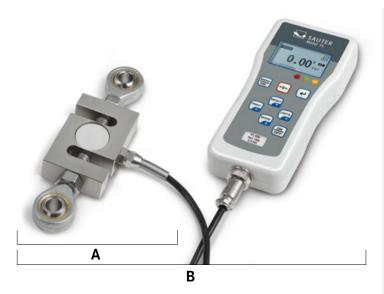
The KERN calibration laboratory is at your side when you need to calibrate according to DAkkS.

From the transducer to the full measuring chain, we are happy to take care of traceable calibration of your test equipment for you. Our accreditation includes the calibration of tensile and pressure force up to 5 kN according to the standards DIN EN ISO 376 and DKD-R 3-3, each with the Newton (N) display unit for a complete measuring chain (situation A) or voltage ratio/transmission coefficient (mV/V, situation B).

Below you will find a comparison of which standard meets which criteria:

Comparison of DIN EN ISO 376 and DKD-R 3-3					
	ISO 376	DKD-R 3-3			
Standardization	ISO standard (internationally standardized)	Standard of the DKD (Germany)			
Measuring equipment	Force transducers and complete measuring chains	Force transducers and complete measuring chains			
Area of application	Specifically force gauges for the testing of testing equipment	General force gauges			
Number of power stages	8	5			
Classification/Assessment	Classification in classes 00; 0,5; 1 and 2	None in standard			
Test sequences	Fixed procedure	Sequences A, B, C, D possible Standard is sequence A B, C and D are reduced sequences, relevant previous knowledge is necessary			
Summary	Higher-quality calibration, as 8 force levels are calibrated	High-quality calibration, reduced sequences with less effort possible			

We can offer you a calibration solution for the following situations:



Situation A:

Separate force transducer, display unit mV/V

Situation B:

Complete force gauge (N), consisting of transducer, amplifier and display, display unit N

► See also tables, right side

You can find further information on this topic at: www.kern-lab.com



Prices for DAkkS calibration of force gauges and force transducers

Situation A: Force transducer (voltage ratio, in mV/V)*1,2					
	ISO 376 (8 stages)	DKD	DKD-R 3-3 (5 stages, sequence A)		
KERN	Measuring range	KERN	Measuring range		
Tensile force:					
963-161IV (R)	≤ 500 N	963-161V (R)	≤ 500 N		
963-162IV (R)	≤ 2 kN	963-162V (R)	≤ 2 kN		
963-163IV (R)	≤ 5 kN	963-163V (R)	≤ 5 kN		
Compression for	ce:	·			
963-261IV (R)	≤ 500 N	963-261V (R)	≤ 500 N		
963-262IV (R)	≤ 2 kN	963-262V (R)	≤ 2 kN		
963-263IV (R)	≤ 5 kN	963-263V (R)	≤ 5 kN		
Tensile and Compression force:					
963-361IV (R)	≤ 500 N	963-361V (R)	≤ 500 N		
963-362IV (R)	≤ 2 kN	963-362V (R)	≤ 2 kN		
963-363IV (R)	≤ 5 kN	963-363V (R)	≤ 5 kN		

Situation B: Complete force gauge (in N)*2					
	ISO 376 (8 stages)	DKD-	DKD-R 3-3 (5 stages, sequence A)		
KERN	Measuring range	KERN	Measuring range		
Tensile force:					
963-161I (R)	≤ 500 N	963-161 (R)	≤ 500 N		
963-162I (R)	≤ 2 kN	963-162 (R)	≤ 2 kN		
963-163I (R)	≤ 5 kN	963-163 (R)	≤ 5 kN		
Compression forc	e:	·			
963-261I (R)	≤ 500 N	963-261 (R)	≤ 500 N		
963-262I (R)	≤ 2 kN	963-262 (R)	≤ 2 kN		
963-263I (R)	≤ 5 kN	963-263 (R)	≤ 5 kN		
Tensile and Compression force:					
963-361I (R)	≤ 500 N	963-361 (R)	≤ 500 N		
963-362I (R)	≤ 2 kN	963-362 (R)	≤ 2 kN		
963-363I (R)	≤ 5 kN	963-363 (R)	≤ 5 kN		

Factory calibration for force

Situation A: Force transducer (voltage ratio, in mV/V)*1,2			Situation B: Complete force gauge (in N)*2				
KERN	Measuring range		KERN	Measuring range			
Tensile force:	Fensile force:						
961-161V (R)	≤ 500 N		961-161 (R)	≤ 500 N			
961-162V (R)	≤ 2 kN		961-162 (R)	≤ 2 kN			
961-163V (R)	≤ 5 kN		961-163 (R)	≤ 5 kN			
961-164V (R)	≤ 20 kN		961-164 (R)	≤ 20 kN			
961-165V (R)	≤ 50 kN		961-165 (R)	≤ 50 kN			
961-166V (R)	≤ 250 kN		961-166 (R)	≤ 120 kN			
Compression fo	rce:						
961-261V (R)	≤ 500 N		961-261 (R)	≤ 500 N			
961-262V (R)	≤ 2 kN		961-262 (R)	≤ 2 kN			
961-263V (R)	≤ 5 kN		961-263 (R)	≤ 5 kN			
961-264V (R)	≤ 20 kN		961-264 (R)	≤ 20 kN			
961-265V (R)	≤ 50 kN		961-265 (R)	≤ 50 kN			
961-266V (R)	≤ 250 kN		961-266 (R)	≤ 120 kN			
Tensile and Con	npression force:						
961-361V (R)	≤ 500 N		961-361 (R)	≤ 500 N			
961-362V (R)	≤ 2 kN		961-362 (R)	≤ 2 kN			
961-363V (R)	≤ 5 kN		961-363 (R)	≤ 5 kN			
961-364V (R)	≤ 20 kN		961-364 (R)	≤ 20 kN			
961-365V (R)	≤ 50 kN		961-365 (R)	≤ 50 kN			
961-366V (R)	≤ 250 kN		961-366 (R)	≤ 120 kN			

(R): Recalibration

For each force gauge without interface or from other manufacturers we charge a surcharge

^{*1} Compatibility with our amplifiers required

^{*2} Installation in our measuring equipment required

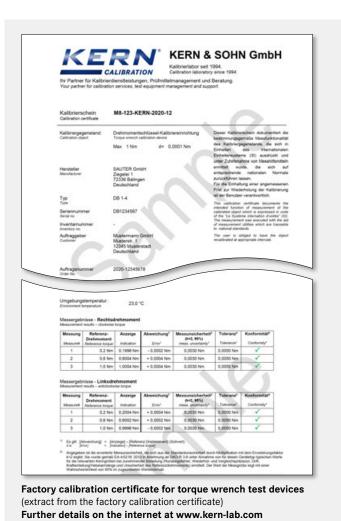
Factory calibration certificates

As DAkkS calibration certificates cannot be offered for all measuring devices or measurement sizes, or where it is not customary, we then offer factory calibration certificates. These calibration certificates meet international standards and are particularly suitable as proof of exacting calibration in the monitoring of your checking equipment, for example:

- Mechanical balances (spring balances, etc.)
- Force-measuring devices up to 250 kN (see also page 213)
- Measuring devices for layer thickness 0 μm 2000 μm
- · Hardness testing devices in accordance with Leeb tests
- Ultrasonic material thickness testing device 25 mm 300 mm

We carry out calibrations independent of brand. In order to avoid any unnecessary delays when processing your order, please send us the technical documents and necessary accessories with the checking device. Calibration time 4 working days.

For up-to-date information on test services for further measuring variables please see p. 213 or visit our website www.kern-lab.com



KERN	Managina Managina					
KEKIN	Measuring device	Measuring range				
Factory calibration						
961-110	Coating thickness	≤ 2000 µm F or N				
961-112	Coating thickness	≤ 2000 µm FN				
961-113	Wall thickness (ultra sound)	≤ 300 mm (in stainless steel)				
961-114	Wall thickness (Test blocks)	≤ 300 mm				
961-170	Hardness comparison plate (Shore)	For sets up to 7 plates				
961-131	Hardness tester (Leeb)	400 – 800 HLD				
961-132	Hardness comparison plate (Leeb)	Hardness comparison plate (for Leeb durometer)				
961-270	Hardness (UCI)	200 - 800 HV				
961-150	Length	≤ 300 mm				
961-190	Light	≤ 200000 lx				
961-100	Mechanical balances/ spring balances	≤ 5 kg				
961-101	Mechanical balances/ spring balances	> 5 - 50 kg				
961-102	Mechanical balances/ spring balances	> 50 - 350 kg				
961-103	Mechanical balances/ spring balances	> 350 - 1500 kg				
961-102K	Digital dynamometer KERN MAP	≤ 130 kg				
961-120 (R)	Torque wrench test devices	1 Nm - 200 Nm				
Additional services						
962-116	Express service with 48 hour delivery					

(R): Recalibration

For each force gauge without interface or from other manufacturers we charge a surcharge

Accuracy classes for test weights

E, F, M ▶ Error limit classes

Adjusting of measurement equipment

Precise setting of a measurement value via a professional intervention in the measurement system.

Adjusting the weighing range of a balance



Either with the external test weight via the adjusting program CAL, or with the internal automatic adjustment resp. adjusting switch. It is necessary with variations in temperature, a change of environmental conditions, change of location, etc.

Recommended as a daily check routine.

Alibi memory

For weighings where verification is mandatory, and which are to be analysed and processed by a PC (e.g. printing out a packing list using a PC instead of a printer connected directly to the balance) electronic archiving is required by the metrological authorities by a verifiable data memory which cannot be manipulated. Alibi memories from KERN fulfil this requirement. They are for paperless archiving of weighing results. For KERN products the alibi memory is fitted inside the balance, right between where the weight is determined and the output to the PC.

All data transferred to the PC is stored with date, time and all important weights for at least three months. These stored data strings can be displayed on the balance at any time. The data in the alibi memory can be deleted, but not changed.

Application accuracy

Allowance for measuring uncertainty during practical use of a balance. Is given in the appendix to the DKD calibration certificate.

Derived from ATmosphère EXplosibles. (explosive atmosphere). A synonym for EU guidelines, which controls the quality and use of equipment in hazardous industrial environments, where there is explosion danger, e.g. by handling of flammable substances, which are present in high concentrations in the form of gas, mist, vapour or dust. See also 2014/34/EU as well as 1999/92/EU.



Balances which are verified/not approved for verification

Metrologically almost identical. For verified balances certain details are regulated by law, e.g. software changes and additional markings.

C

CAL

Adjusting the balance is triggered with an external test weight by using the CAL key on the key pad or on the touch display of the display device or the CAL menu option. This will guarantee the consistent high accuracy of the balance.

Calibration of measurement equipment

Determination of the precision of a measurement value without intervention in the measurement system. Example: to check a balance you load a ▶ test weight upon it. The term "Calibrating" was formerly also used for ▶ Adjusting.

Calibration Certificate DKD/DAkkS



See product group 18 "Calibration service"

Calibration or verification



DAkkS-Calibration is possible for every balance in perfect condition. DAkkS calibration (DKD) is a private service monitored by the state for ensuring high quality requirements according to ISO 9000ff and others, e.g. in production or research. Verifying (conformity assessment) is only possible for type-approved balances marked with the green **M** ► *Verification*

Commercial error limit

Permitted tolerance (plus and minus) of measuring devices where verification is mandatory when used within their verification validity period. This tolerance is double the permissible error limit, in so far as this is not specified otherwise in the Weights and Measures Act).

Conformity assessment

Procedure for confirming warranted characteristics in accordance with recognised rules. For balances this relates to verification.

Conformity declaration from the manufacturer

The manufacturer declares that the product fulfils the applicable EU directives. With electronic balances this is always in conjunction with the CE mark.

Control of measuring equipment in the QM system in conjunction with quality standards

An organisation certified to a quality standard such as DIN EN ISO 9001 ff. e.g. a production plant is obliged to adhere to a defined quality standard within the framework of its quality management system. To do this, it is imperative to have a measurement equipment which is working accurately. Chapter 7.1.5 "Resources for monitoring and measuring" of DIN EN ISO 9001:2015-11 states that measuring equipment must be calibrated at defined intervals and before use. The measurement devices and measurement standards needed to do this must:

- be traced back to international or national standards.

(► Traceability to the National Standard)

- their uncertainty of measurement must be known-they must be marked with a clear identification
- the test must be documented

The ► DAkkS calibration (DKD) fulfils all these requirements.

Conventional mass of weights

The problem is the air movement, which makes the weight appear lighter. In order to avoid this "distortion" in daily use, all weights are adjusted to the unit specifications given in R111, e.g. it is accepted that: material density of the weights is 8000 kg/m³, air density is 1.2 kg/m³ and measuring temperature is 20°C.

Counting resolution

The counting resolution is calculated in points from the ratio of the weighing range [Max] divided by the smallest part weight. It is a statement of counting accuracy.



DAkkS = German accreditation authority

► Calibration Certificate DKD/DAkkS See product group 18 "Calibration service"

Data interface



To connect the balance to a printer, PC, network or a second balance. Typical interfaces are, for example, RS-232, RS-485, USB, Bluetooth, LAN, Digital I/O, DUAL, LAN etc. The interface parameters can be set using the balance. The interfaces available are stated in the model description.

Density determination

One of the main areas of application for laboratory balances is determining densities, e.g. determining the specific weight of liquids and solids. To do this you will need a highly accurate precision or analytical balance and a density set. It is particularly convenient if the balance can calculate and display the density right away.

It has become apparent that by means of weigting when in the process of determining the density of liquids and solids according to the buoyancy method particularly accurate results can be obtained (Archimedes' principle).

- a) Density determination of liquids: By means of measuring the buoyancy with a glass plummet with known volume immersed in the liquid to be measured
- b) Density determination of solid bodies:

$$\rho = \underline{A} \cdot \rho_0$$

 ρ = Density of sample

A = Weight of sample in air

B = Weight of sample in auxiliary liquid

 ρ_0 = Density of the auxiliary liquid

Applications:

- a) Pre-packaged goods control, whenever a product is sold according to its volume [cm³]. This volume is calculated with weight [g]: density [g/cm³].
- b) Materials analysis

DMS = Strain gauge



An electrical resistor strip that is glued to an elastic deforming body made of aluminium. As the strain gauge is mechanically deformed its resistance value changes, allowing the measured value to be calculated.

Draught shield

Required for balances with ► Readout $d \le 1$ mg, to avoid disturbing air movements.

Dual-range balance

As the load increases, the balance switches automatically to the next largest range, for both, weighing range [Max] as well as readout [d].

E

Error limit classes for test weights according to EU directive OIML R111

For further details, see product group 17 "Test weights"

FACTORY

These options can only be carried out at KERN factory.

FORCE = Electromagnetic force compensation



A counterforce is created by means of a coil in a permanent magnet. This counterforce is the same as the load of the weight being measured on the scale and therefore equalising. The measured value is calculated via the change in the coil current.

G

GLP = Good Laboratory Practice

► ISO/GLP

Gravitational acceleration

► Gravitational force

Gravitational force

very important influence for precise electronic balances. Due to the varying influence balances have to be ▶ adjusted at the location of use.

Н

HACCP

= Hazard Analysis and Critical Control Points (HACCP) The HACCP concept is a preventative system, which is designed to guarantee the safety of foodstuffs EC regulation 852/2004 mandates the use of the HACCP concept for all companies which are involved in production, processing and sales of foodstuffs.

ISO 9000ff/DIN EN ISO 9000ff

Quality Management System in the form of a DIN Norm for quality assurance in a factory.

ISO calibration/ISO certificate = factory calibration certificate

Testing measurement devices for accuracy in accordance with a procedure which is recognised, but not accredited.

ISO/GLP record keeping





Quality Assurance Systems demands record keeping of weighing results and correct adjusting of the balance, giving details of date, time and balance identification. The easiest way to obtain this documentation is by means of a connected printer.

Junction Box

For connection and simple corner adjustment of several load cells.

KCP

KCP is an universal communication protocol between laboratory balances, industrial scales or other measuring instruments and digital devices, such as a computer, server or process management system. Due to the universal protocol structure, one measuring instrument can be replaced by another without adapting the communication interface.

Linearity/Precision

Greatest deviation of the weight displayed of a balance with regard to the value of the respective test weight in terms of plus and minus across the whole weighing range.

М

Minimum load [Min]

Lower limit of the verifiable weighing range. Is marked on the verification mark. The function of the balance is also given below the minimum load.

Minimum sample weight

Indicates the smallest weight which can be determined, depending on the process accuracy required.

N

Newton

Newton (N) is the unit for physical force values. A Newton is the force required to accelerate a 1 kg mass at rest to a speed of 1 m/s within one second.

Notified body

Neutral and independent, predominantly government bodies, which are formally appointed by the EC. They are engaged in the field of verification for conformity evaluations (initial verification) and type-approval test within the scope of type approvals.



Optimisation of reference weight (when piece counting)

See product group 9 "Counting balances/ Counting systems".

Percentage determination



Example: Reference weight prior to drying: 50g = balance display 100%. After drying 40g = balance display 80% absolute (dry mass) or 20% relative (humidity).

Permissible ambient temperature

Measuring errors are possible if you use the balances outside the permitted specified ambient temperature range.

With verified balances this is stated on the identification plate.

PLU (Price Look Up)

This refers to a data memory in pricecomputing retail scales for the base price of sales items.

Pre-packaging legislation (FPVO)

Ensures that pre-packed goods are filled correctly, for example, in food industry. The Weights and Measures Act governs the permissible weight and volume tolerances.

PRE-TARE

Entering and saving a tare weight (e.g. container weight) through weighing or manual entry using the balance keypad before the actual weighing process. When you subsequently place the tare container on the balance, the balance will show zero immediately - saves time. Particularly useful e.g. for checking fill levels

Proof of compatibility

This documents the verification compatibility for combinations of weighing modules such as display devices, load cells and connecting elements.

R

Readout [d]

Smallest readable weight increment on a digital display.

Recalibration

Periodic checking of the precision of measurement equipment/checking equipment (e.g. balances/weights) to control accuracy,

► Control of measurement equipment

Reference weight (when piece counting)

See product group 9 "Counting balances/Counting systems".

Reproducibility (standard deviation)

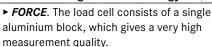
Sequenced measure of conformity in repeated weighing (e.g. balances) subject to the same conditions. Mostly 1 [d] or less. Quality feature.

Resolution of a balance

The resolution is calculated from the weighing range [Max] divided by the readout [d], e. g. [Max] 420 g: [d] 0.001 g = 420,000 points. The resolution is a quality feature – the higher, the better.



SC-TECH = Single-Cell-Technology



Semi-micro balance

Analytical balance with a readout [d] = 0,01 mg

Smallest part weight when counting

The smallest piece weight, which a balance can accept for piece counting. For the relevant model, enter "g/piece" in the product data table.



T-FORK = Tuning fork principle

A resonating body (like a tuning fork) is electromagnetically excited, causing it to oscillate. The measured value is calculated via the change in frequency corresponding to the load of the weight being measured on the scale.

Taring, automatic

► PRE-TARE

Taring, subtractive

The available weighing range of a balance is reduced by the value of the tare load. Example: weighing range of a balance Max 6000g, Tare (= container) 470g, available weighing range 5530g.

Test weight, external (previously calibration weight)



For adjusting or checking the balance accuracy ► *Adjusting the weighing range*. The external test weight can be DAkkS calibrated at any time, even afterwards, see product group 18 "Calibration Service".

Test weight, internal



Like test weight external, but installed in the balance and powered.

Totalising



Various individual weighings are added automatically to aggregate, e.g. all individual weighings of a batch.

Traceability to the National Standard

A pre-requisite for every perfect measurement is the validated comprehensive proof that the measuring equipment can be traced back to the international or national standards. In Germany the statutory binding standards are available from the PTB.

Type approval for balances

Strict process to test whether a balance fulfils the verification requirements.

A balance can only be verified, if it has got a type approval from a rotified body.



Uncertainty of measurement of a balance (= standard deviation)

Determined for each balance according to a precisely given test method and documented in the ► *Calibration certificate*. It depends on various factors, both, internal and external. Uncertainty of measurement increases by a rising charge of the balance, see product group 18 "Calibration Service"

V

Verification

Verification, in accordance with the new terminology "Conformity assessment".

Only balances with ► *EC type approval* can be evaluated for conformity. These balances have an identification plate with the metrology marking M. The state requires assessment for conformity and this assessment serves as consumer protection. According to EU directive 2014/31/EEC balances must be officially assessed for conformity (calibrated) if they are used as follows:

- a) in commercial trade when the price of a commodity is determined by weighing.
- b) in the manufacture of pharmaceuticals in pharmacies and analysis in pharmaceutical and medical laboratories.
- c) for official purposes.
- d) in the production of prepackaging.
- e) in medical applications.

Every balance is tested by KERN and marked with a conformity mark. Its accuracy within the framework of permissible tolerances is thereby confirmed. EU verification applies to all member states of the EU.

Verification classes of balances



Class I – Analytical balance (precision balance), Class II – precision balance,

Class III - industrial scale (commercial scale).

Verification of a balance with adjusting program CAL EXT

The adjusting program is sealed with an official mark after the verification. Thus the verification is only valid for the specific location of use.

► Gravitational force

To be able to correctly adjust the balance to your location of use, it is necessary to advise the location of use and postcode. See individual model details for the information as to whether verification can be carried out in the factory or at the location of use.

Verification of a balance with automatic internal adjusting CAL INT

The above restrictions in respect of the location of use do not apply, because the automatic internal adjusting works also after verification, therefore it is not sealed. In this case, verification does not depend on the location.

Verification validity for balances

Generally 2 years for all verification classes, for control balances generally 1 year, after expiry the balance has to be re-verified.

Verification value [e]

Measure of the verification tolerance, depending on balance, mostly between 1 [d] and 10 [d] • Readout

W

Weighing range [Max]

is the working range of the balance. The balance can be loaded up to the specified upper limit.

Sales conditions



All prices are valid as of January 1st 2022 until a new version of the KERN catalogue is released. In Europe, all prices do not include the applicable V.A.T.

At KERN there is no minimum order value.

For orders less than € 15.00 there is no re-sale discount available.

Delivery Conditions: we supply ex works Balingen, e.g. the transport costs are invoiced. With our contract logistics partners we always offer you shipping at a good rate. When shipping to islands or other more distant areas, or areas which are difficult to access, the transport costs may possibly be higher, please ask for details. Any goods supplied remain KERN's property until complete payment for the goods sold has been received.



Delivery is usually via courier service.



When you see this symbol by truck, please ask for prices.

Extract from general terms and conditions:

Court of jurisdiction/Legal domicile: 72336 Balingen, Germany;

Commercial register N°: HRB 400865, AG Stuttgart;

Managing director: Albert Sauter For the full Terms and Conditions, please refer to the website.

www.kern-sohn.com/en/kern/agbs.html

Price changes and product changes are likely in individual cases, due to product modifications as well as error.

Sale or return: within 14 days of purchase. Not valid for order-specific adaptations such as special productions, cable extensions, special weights, etc. or test services such as calibration, verification, etc.

Depending on the time and effort involved, there may be processing and storage costs, please ask for details. **Warranty:**

- · 3 years for products with list price ≥ € 400.00
- · 2 years for components as well as products with list price < € 400.00
- · 1 year for pallet truck scales
 Does not apply to consumables such as
 batteries, rechargeable battery packs, etc.

Balances in areas regulated by law (Verification) must comply with the commercial error limits during the period of validity for verification – these are usually double the verification permissible error limits. If this period of validity for verification expires, then reverification must be carried out. If, in order to pass the verification, it should be necessary to adjust the balance to comply with the verification permissible error limits, then this does not constitute a warranty claim.

Service



KERN DirectCash: The quick, secure COD procedure for protection against non-payment. With the KERN DirectCash COD system, you can safely deliver orders to end customers with unknown credit rating, with no risk of non-payment. Please request further details on this procedure.

Hire Purchase

Financing is available using KERN hire purchase – easy and convenient. Hire Purchase gives you the option of purchasing any product from our range against a simple monthly installment. The product value is financed over the period of the agreement. On payment of the last installment, the ownership of the contract item automatically transfers from the contractor to the contractee. The Hire Purchase Agreement can – if you so choose – be set for a period of between one and five years. This package includes the transfer of items as well as the guarantee for the entire transfer period.

Compared with buying the product, KERN hire purchase offers the advantage that the initial financial investment is largely unnecessary. This is particularly relevant when purchasing a number of products, for example when refitting a laboratory, a company department or a hospital ward. In addition the monthly installments constitute a direct cost and the item does not have to be capitalised by the purchaser.

After-Sales-Service



Repair service

Within 1 week at our plant in Balingen, transportation costs are additional. In urgent cases, if requested by customer, a replacement device will be provided until all repairs are completed; please ask.

Price reduction for a new device

If repair costs exceed the current value of the defective device, a new device will be offered for a discount price. This offer is valid only up to 2 years after warranty expiration.

Spare parts service

Usually within 48 hours, transportation costs are additional.

Marketing support



KERN catalogues, brochures, branch prospectuses – your own personalised marketing tools

This catalogue and branch prospectuses are available free of charge. A neutral version of the catalogue, without the KERN address imprint, is also available free of charge for your marketing activities, larger quantities on request.

On demand, your company logo and address can be printed on the back of the KERN catalogue free of charge, larger quantities on request. In this way you have got your own individual marketing tool.

The KERN catalogue and branch prospectuses are available in the following languages: DE, EN, FR, IT, ES.

For further details, see page 2.

Important notice



Explosion hazard or humidity

Our balances are not suitable for rooms with a risk of explosion. Our models are also not suitable for rooms with a high level of air humidity (condensing). Please observe the applicable electrical regulations.

Earth's gravitational force

Electronic balances are subject to location regulations due to the earth's gravitational force. If location of use is changed, reverification and recalibration of the electronic balance is needed.

See the glossary, page 215 ► Adjusting