







































COUNTING SCALES/COUNTING SYSTEMS/ SPECIAL STOCKTAKING SCALES



PROFESSIONAL MEASURING

2016

KERN Pictograms

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).	 Piece counting: Reference quantities selectable. Display can be switched from piece to weight.	 Suspended weighing: Load support with hook on the underside of the balance.
 Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required.	 Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).	 Battery operation: Ready for battery operation. The battery type is specified for each device.
 Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.	 Rechargeable battery pack: Rechargeable set.
 Alibi memory: Electronic archiving of weighing results, complying with the 2009/23/EC standard. For details see page 214	 Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode.	 Universal mains adapter: with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS
 Data interface RS-232: To connect the balance to a printer, PC or network.		 Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available.
 RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.	 Totalising level A: The weights of similar items can be added together and the total can be printed out.	 Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.
 USB data interface: To connect the balance to a printer, PC or other peripherals.	 Totalising level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition.	 Weighing principle: Strain gauges Electrical resistor on an elastic deforming body.
 Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals.		 Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate.
 WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.	 Percentage determination: Determining the deviation in % from the target value (100 %).	 Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings.
 Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	 Weighing units: Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details.	 Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision.
 Interface for second balance: For direct connection of a second balance.	 Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning	 Verification possible: The time required for verification is specified in the pictogram.
 Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter. See page 180	 Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.	 DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram.
 Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module.	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see the glossary. See page 72.	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.	 ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.	 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 GLP/ISO log: With weight, date and time. Only with KERN printers, see "Accessories", see page 177.	 Stainless steel: The balance is protected against corrosion.	 Warranty: The warranty period is shown in the pictogram.

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KERN – measuring technology and testing services from a single source



Balances & Test service catalogue

Provides a complete overview of the KERN line of balances, test weights, and services, services such as verification, calibration, etc.



Medical scales catalogue

Complete line of medical scales, from infant scales to patient scales, chair scales and adiposity scales, as well as hand grip dynamometers, chemist's balances, and veterinary scales.



Microscopes & refractometers catalogue

Extensive range in the area of optical instruments, such as, for example, biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers.



SAUTER measuring equipment catalogue

Test instruments for industry and commerce, such as force, coating thickness, material thickness and calibration service.



KERN DAkKS calibration service brochure

Detailed information on topics pertaining to the calibration and verification of balances, test weights, and force measuring devices.



KERN flyer Special offers

Compact overview of our bestselling products – just the balances/measuring instruments/microscopes your customers need! Can be customised to suit your requirements.



The gnome guide

Travel report from KERN, the famous scientific gnome, who travelled all over the world, in order to illustrate the physical law of gravitational force. Ideal for use in school education – please request, it's free of charge.



170 years of KERN

Interesting and readable overview of the history of the origins of Southern German balance manufacturing, as well as the company history, which stretches right back to 1770 – please request, it's free of charge.

Your advantages

1

Quick Delivery

Items in stock are sent the same day if orders are placed before 1:00 pm (valid for parcel service delivery within the EC).

2

Price performance ratio

KERN scales are always an inexpensive alternative. They are durable, uncomplicated and easy to place into operation.

3

Direct dispatch

of ordered goods to your customer is available, with personalised delivery note if desired (please ask), invoice will be issued to you (third party business).

4

3 years warranty

Items under € 400,- : 2 years

5

No stock-keeping necessary.

KERN does the warehousing for you.

6

Sale or return

within 14 days of purchase.

Interesting facts about density determination

Minimum piece weight

Smallest piece the scale will accept for piece counting and piece count display. 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.

→ 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 $\leq 60,000$ points, 50 pieces from 60,000 – 150,000 points, 100 pieces $\geq 150,000$ 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 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 scale, 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 ranges 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.

Special stocktaking scales SMT, FKA and FKC

For demanding quantity measurement, e.g. as part of a stocktake. With its easy-to-use touch screen, special stocktaking software and PC connection this makes it quicker to collect and analyse stock levels

→ See the glossary on page 214 – 216



KERN FKA

only €
950,-
► page 96

Your product specialist's recommendation:**Intelligent, rapid inventory system****Enormous item memory****Intuitive touchscreen operation****Tanja Jetter**









Product specialist Counting scales

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tanja.jetter@kern-sohn.com

Quick-Finder Counting scales/Counting systems/Special stocktaking scales

Read-out	Weighing range	Model	Price excl. of VAT ex works €	Page	 ready for shipping							
[d]	[Max]	KERN				For an explanation on the pictos, see the front flap						
0,1 mg	6 15 kg	CCT 10K-7	3100,-	102	2	○	●	●	●		●	○
0,001 g	0,3 kg	CFS 300-3	350,-	91	1		●	●	●	●	●	○
0,001 g	0,36 kg	CKE 360-3	310,-	92	1		●	●	●		●	○
0,001 g	6 kg	CCS 6K-6	670,-	98	2		●	●	●	●	●	○
0,001 g	6 kg	CCT 6K-6	4100,-	102	2	○	●	●	●		●	
0,001 g	6 15 kg	CCT 10K-6	2700,-	102	2	○	●	●	●		●	
0,001 g	15 kg	CCS 10K-6	710,-	98	2		●	●	●	●	●	○
0,001 g	30 60 kg	CCT 60K-6	2800,-	102	2	○	●	●	●		●	
0,001 g	36 kg	FKC 30K-6	1280,-	97	2		●	●	●	●	●	○
0,001 g	65 kg	FKC 60K-6	1280,-	97	2		●	●	●	●	●	○
0,01 g	2 kg	CKE 2000-2	350,-	92	1		●	●	●		●	○
0,01 g	3 kg	CFS 3K-5	300,-	91	1		●	●	●	●	●	○
0,01 g	3,6 kg	CKE 3600-2	370,-	92	1		●	●	●		●	○
0,01 g	15 30 kg	CCT 30K-5	2800,-	102	2	○	●	●	●		●	
0,01 g	30 kg	CCS 30K0.01.	580,-	98	2		●	●	●	●	●	○
0,01 g	30 60 kg	CCT 60K-5	2800,-	102	2	○	●	●	●		●	
0,01 g	36 kg	FKC 30K-5	1260,-	97	2		●	●	●	●	●	○
0,01 g	60 kg	CCS 60K0.01.	580,-	98	2		●	●	●	●	●	○
0,01 g	60 kg	CCS 60K0.01L	660,-	98	1		●	●	●	●	●	○
0,01 g	60 150 kg	CCT 100K-5	2900,-	102	2	○	●	●	●		●	
0,01 g	65 kg	FKC 60K-5	1260,-	97	2		●	●	●	●	●	○
0,01 g	150 kg	CCS 150K0.01L	890,-	98	1		●	●	●	●	●	○
0,01 g	150 kg	CCS 150K0.01	660,-	98	2		●	●	●	●	●	○
0,01 g	150 300 kg	CCT 300K-5	3000,-	102	2	○	●	●	●		●	
0,01 g	300 kg	CCS 300K0.01.	890,-	98	2		●	●	●	●	●	○
0,01 g	600 kg	CCS 600K-2	1450,-	98	2		●	●	●	●	●	○
0,01 g	3000 kg	CCS 3T-1L	2050,-	98	1		●	●	●	●	●	○
0,02 g	4 kg	CDS 4K0.02	560,-	94	1		●	●	●		●	○
0,02 g	6 kg	CKE 6K0.02	500,-	92	1		●	●	●		●	○
0,05 g	8 kg	CKE 8K0.05	460,-	92	1		●	●	●		●	○
0,05 g	15 kg	CDS 15K0.05	490,-	94	1		●	●	●		●	○
0,05 g	16 kg	CKE 16K0.05	560,-	92	1		●	●	●		●	○
0,1 g	6 kg	CPB 6K0.1N	235,-	90	1		●	●	●		●	○
0,1 g	6 kg	CFS 6K0.1	270,-	91	1		●	●	●	●	●	○
0,1 g	15 kg	CCP 10K-4	2900,-	100	2		●	●	●		●	
0,1 g	16 kg	CKE 16K0.1	460,-	92	1		●	●	●		●	○
0,1 g	16 kg	CDS 16K0.1	460,-	94	1		●	●	●		●	○
0,1 g	30 kg	CDS 30K0.1	560,-	94	1		●	●	●		●	○
0,1 g	30 kg	CCS 30K0.1.	570,-	98	2		●	●	●	●	●	○
0,1 g	30 kg	CCP 30K-4	3000,-	100	2		●	●	●		●	
0,1 g	36 kg	CKE 36K0.1	520,-	92	1		●	●	●		●	○
0,1 g	36 kg	FKA 30K-4	950,-	96	1		●	●	●		●	○
0,1 g	60 kg	CCS 60K0.1.	550,-	98	2		●	●	●	●	●	○
0,1 g	60 kg	CCP 60K-4	2900,-	100	2		●	●	●		●	
0,1 g	150 kg	CCS 150K0.1.	610,-	98	2		●	●	●	●	●	○
0,1 g	150 kg	CCS 150K0.1L	850,-	98	1		●	●	●	●	●	○
0,1 g	300 kg	CCS 300K0.1	850,-	98	5		●	●	●	●	●	○
0,1 g	600 kg	CCP 600K-4	4200,-	100	2		●	●	●		●	
0,1 g	1,5 t	CCS 1T-1	1390,-	98	2		●	●	●	●	●	○
0,1 g	3 t	CCS 3T-1	1950,-	98	2		●	●	●	●	●	○
0,1 g	3 t	CCP 3T-7	3300,-	100	4*		●	●	●		●	
0,1 0,2 g	6 15 kg	IFS 10K-4	400,-	93	1		●	●	●		●	○
0,2 g	3 kg	CXB 3K0.2	230,-	89	1		●	●	●		●	○
0,2 g	15 kg	CPB 15K0.2N	235,-	90	1		●	●	●		●	○
0,2 g	15 kg	CFS 15K0.2	270,-	91	1		●	●	●	●	●	○
0,2 g	36 kg	CDS 36K0.2L	690,-	94	1		●	●	●		●	○
0,2 g	60 kg	CDS 60K0.2	690,-	94	1		●	●	●		●	○
0,2 g	65 kg	CKE 65K0.2	520,-	92	1		●	●	●		●	○
0,2 g	65 kg	FKA 60K-4	950,-	96	1		●	●	●		●	○
0,2 0,5 g	12 30 kg	IFS 30K0.2DL	430,-	93	1		●	●	●		●	○
0,5 g	6 kg	CXB 6K0.5	230,-	89	1		●	●	●		●	○
0,5 g	30 kg	CPB 30K0.5N	235,-	90	1		●	●	●		●	○
0,5 g	30 kg	CFS 30K0.5	270,-	91	1		●	●	●	●	●	○
0,5 g	65 kg	CKE 65K0.5	480,-	92	1		●	●	●		●	○
0,5 g	100 kg	CDS 100K0.5	710,-	94	1		●	●	●		●	○
0,5 1 g	30 60 kg	IFS 60K0.5D	430,-	93	1		●	●	●		●	○
0,5 1 g	30 60 kg	IFS 60K0.5DL	520,-	93	1		●	●	●		●	○
1 g	3 kg	CXB 3K1NM	245,-	89	1	○	●	●	●		●	○
1 g	15 kg	CXB 15K1	230,-	89	1		●	●	●		●	○
1 g	50 kg	CFS 50K-3	300,-	91	1		●	●	●	●	●	○
1 2 g	3 6 kg	CPB 6K1DM	235,-	90	1	○	●	●	●		●	○









■ = News 2016

4* = Delivery by truck, please ask for prices

● = Standard

○ = Option

Quick-Finder Counting scales/Counting systems/Special stocktaking scales

Read-out [d]	Weighing range [Max]	Model KERN	Price excl. of VAT ex works €	Page	 DAYS ready for shipping							
For an explanation on the pictos, see the front flap												
1 2 g	3 6 kg	IFS 6K-3M	410,-	93	1	○	●		●		●	○
1 2 g	3 6 kg	IFS 100K-3L	750,-	93	1	○	●		●		●	○
1 2 g	75 150 kg	IFS 100K-3	610,-	93	1		●		●		●	○
1 2 g	600 kg	CCP 600K-3	3800,-	100	2		●	●	●		●	
2 g	6 kg	CXB 6K2NM	245,-	89	1	○	●				●	○
2 g	30 kg	CXB 30K2	230,-	89	1		●				●	○
2 5 g	6 15 kg	CPB 15K2DM	235,-	90	1	○	●		●		●	○
2 5 g	6 15 kg	IFS 10K-3M	410,-	93	1	○	●		●		●	○
2 5 g	6 15 kg	IFS 10K-3LM	460,-	93	1	○	●		●		●	○
2 5 g	150 kg	CCP 100K-3	2600,-	100	2		●	●	●		●	
2 5 g	150 300 kg	IFS 300K-3	750,-	93	1		●		●		●	○
5 g	15 kg	CXB 15K5NM	245,-	89	1	○	●				●	○
5 10 g	15 30 kg	CPB 30K5DM	235,-	90	1	○	●		●		●	○
5 10 g	15 30 kg	IFS 30K-3M	460,-	93	1	○	●		●		●	○
10 g	30 kg	CXB 30K10NM	245,-	89	1	○	●				●	○
10 20 g	30 60 kg	IFS 60K-2M	460,-	93	1	○	●		●		●	○
10 20 g	30 60 kg	IFS 60K-2LM	550,-	93	1	○	●		●		●	○
20 50 g	60 150 kg	IFS 100K-2M	550,-	93	1	○	●		●		●	○
20 50 g	60 150 kg	IFS 100K-2LM	690,-	93	1	○	●		●		●	○
50 100 g	150 300 kg	IFS 300K-2M	690,-	93	1	○	●		●		●	○

■ = News 2016

4* = Delivery by truck, please ask for prices

● = Standard

○ = Option

Are you looking for higher capacity counting scales?

We have just the right product for you!

All floor scales, pallet scales and drive-through scales from product group 10 (pages 123-139) can be put together to create a high-capacity counting system using the built-in RS-232 or DUAL interface.

Your KERN product specialist for counting scales and counting systems, Mrs Tanja Jetter will be pleased to advise you.



Tanja Jetter

Product specialist Counting scales

Tel. +49 [0] 7433 9933-168

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tanja.jetter@kern-sohn.com





Note: Official verification duty for commercial trade.
The verification only refers to the weight of the counted parts

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
 - Total weight (verifiable)
 - Piece weight
 - Total count
- **Audible Fill-to-target:** target quantity or target weight can be programmed. When the target value is reached, a signal will sound
- **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
- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key
- **PRE-TARE function** for manual subtraction of a known container weight, value can be saved

Technical data

- Large backlit LCD displays, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxD 300x225 mm
- Dimensions housing WxDxH 300x330x110 mm
- **Rechargeable battery pack internal,** standard, operating time up to 200 h without backlight, charging time approx. 8 h

- Net weight approx. 4 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN CXB-A01S05, € 36,-
- **Rechargeable battery pack internal,** operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04, € 40,-

STANDARD

CAL EXT

PCS

SUM

ACCU

230 V

DMS

1 DAY

2 YEARS WARRANTY

OPTION

DAkkS

+3 DAYS

FACTORY

M

+3 DAYS

only CXB-NM

Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Min. piece weight [Counting] g/piece	Counting resolution Points	Price excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
								KERN	€	KERN	€
KERN CXB 3K0.2	3	0,2	–	–	0,1	30.000	230,-	–	–	963-127	72,-
KERN CXB 6K0.5	6	0,5	–	–	0,2	30.000	230,-	–	–	963-128	88,-
KERN CXB 15K1	15	1	–	–	0,5	30.000	230,-	–	–	963-128	88,-
KERN CXB 30K2	30	2	–	–	1	30.000	230,-	–	–	963-128	88,-
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 CXB 3K1NM	3	1	1	20	0,1	30.000	245,-	965-227	55,-	963-127	72,-
KERN CXB 6K2NM	6	2	2	40	0,2	30.000	245,-	965-228	55,-	963-128	88,-
KERN CXB 15K5NM	15	5	5	100	0,5	30.000	245,-	965-228	55,-	963-128	88,-
KERN CXB 30K10NM	30	10	10	200	1	30.000	245,-	965-228	55,-	963-128	88,-



Note:
Official verification duty for commercial trade.
The verification only refers to the weight of the counted parts

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**
 - Total weight (verifiable)
 - Piece weight
 - Total count
- **Audible Fill-to-target:** target quantity or target weight can be programmed. When the target value is reached, a signal will sound
- **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, value can be saved
- **Energy management:** Backlight turns off after 5 sec
- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key

Technical data

- Large backlit LCD displays, digit height 20 mm
- Weighing plate dimensions, stainless steel, WxD 295x225 mm
- Overall dimensions WxDxH 320x350x125 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover**, can be retrofitted, scope of delivery: 5 items, KERN CFS-A02S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 90 h without backlight, charging time approx. 12 h, can be retrofitted, KERN GAB-A04, € 40,-
- **Signal lamp** for visual support of weighing with tolerance range, for details see page 181, KERN CFS-A03, € 250,-
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, for details see page 181, KERN CFS-A04, € 35,-
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL EXT

RS 232

PCS

SUM

TOL

MULTI

DMS

1 DAY

2 YEARS WARRANTY

OPTION

ACCU

DAkkS +3 DAYS

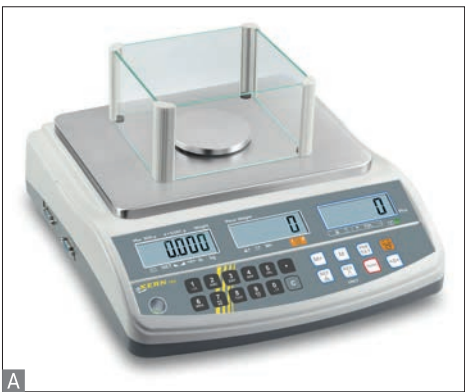
FACTORY

M +3 DAYS

only CPB-DM

Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options			
							Verification		DAkkS Calibr. Certificate	
							MID KERN	€	DKD KERN	€
KERN										
CPB 6K0.1N	6	0,1	-	-	0,1	235,-	-	-	963-128	88,-
CPB 15K0.2N	15	0,2	-	-	0,25	235,-	-	-	963-128	88,-
CPB 30K0.5N	30	0,5	-	-	0,5	235,-	-	-	963-128	88,-
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.										
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].										
CPB 6K1DM	3 6	1 2	1 2	20	0,1	235,-	965-228	55,-	963-128	88,-
CPB 15K2DM	6 15	2 5	2 5	40	0,25	235,-	965-228	55,-	963-128	88,-
CPB 30K5DM	15 30	5 10	5 10	100	0,5	235,-	965-228	55,-	963-128	88,-

Counting scale KERN CFS



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
- **Weighing with tolerance range (checkweighing)**, ideal for portioning, dispensing, grading, only in weighing and counting mode
- **Fill-to-target function:** Programmable target quantity or target weight. An acoustic and visual signal will be displayed when the target value is reached
- **PRE-TARE function** for manual subtraction of a known container weight, value can be saved

- **Second balance interface** to construct a high-resolution counting system, standard, e.g. with weighing bridges KERN KFP V20 (see page 150)

Technical data

- Large backlit LCD displays, digit height 20 mm
- Weighing plate dimensions, stainless steel,
 - A Ø 80 mm
 - B WxD 300x225 mm, see enlarged picture
 - C WxD 370x240 mm
- Overall dimensions WxDxH
 - A 320x350x180 mm (incl. draught shield),
 - B 320x340x130 mm
 - C 370x375x130 mm
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing standard, only for models with weighing plate size B. Can be re-ordered, scope of delivery: 5 items, KERN CFS-A02S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 70 h without backlight, charging time approx. 14 h, can be retrofitted, KERN GAB-A04, € 40,-
- **Signal lamp** for visual support of weighing with tolerance range, WxDxH 100x180x300 mm, KERN CFS-A03, € 250,-
- **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, € 35,-
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL EXT

MEMORY

RS 232

DUAL

PCS

TOL

MULTI

DMS

1 DAY

2 YEARS WARRANTY

OPTION

ACCU

DAkKS +3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DAkKS Calibr. Certificate	
							DKD KERN	€
KERN CFS 300-3	0,3	0,001	0,005	2,5	A	350,-	963-127	72,-
CFS 3K-5	3	0,01	0,05	3,3	B	300,-	963-127	72,-
CFS 6K0.1	6	0,1	0,1	3,3	B	270,-	963-128	88,-
CFS 15K0.2	15	0,2	0,2	3,3	B	270,-	963-128	88,-
CFS 30K0.5	30	0,5	0,5	3,3	B	270,-	963-128	88,-
CFS 50K-3	50	1	1	4,4	C	300,-	963-128	88,-



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

Features

- **Self-explanatory graphic control panel**, counting process 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:
 - 1 Place the empty container onto the weighing plate and tare by pressing the TARE key
 - 2 Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
 - 3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
 - 4 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 scales in one:** Switching from counting mode to weighing mode at the touch of a key

Technical data

- Large backlit LCD display
 - A, B digit height 9 mm, C digit height 18 mm
- Weighing plate dimensions, stainless steel*
 - A Ø 81 mm, B WxD 150x170 mm*
 - C WxD 340x240 mm*, see enlarged picture
- Overall dimensions WxDxH
 - A, B 167x250x85 mm, C 350x390x120 mm
- Optional battery operation for models with weighing plate size C, batteries 6 x 1.5 V Size C not standard, operating time up to 40 h
- Net weight for models with weighing plate size
 - A approx. 1 kg
 - B approx. 1,8 kg
 - C approx. 6,5 kg



- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing standard. Can be re-ordered, scope of delivery: 5 items, for models with weighing plate size
 - A KERN PCB-A02S05, € 30,-
 - B KERN PCB-A05S05, € 30,-
 - C KERN FKB-A02S05, € 30,-
- **Rechargeable battery pack external**, operating time up to 25 hours with backlight, charging time approx. 10 h, KERN KS-A01, € 180,-
- **Rechargeable battery pack internal** only for models with weighing plate size A and B, operating time up to 25 hours with backlight, charging time approx. 10 h, can be retrofitted, KERN KB-A01N, € 50,-
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

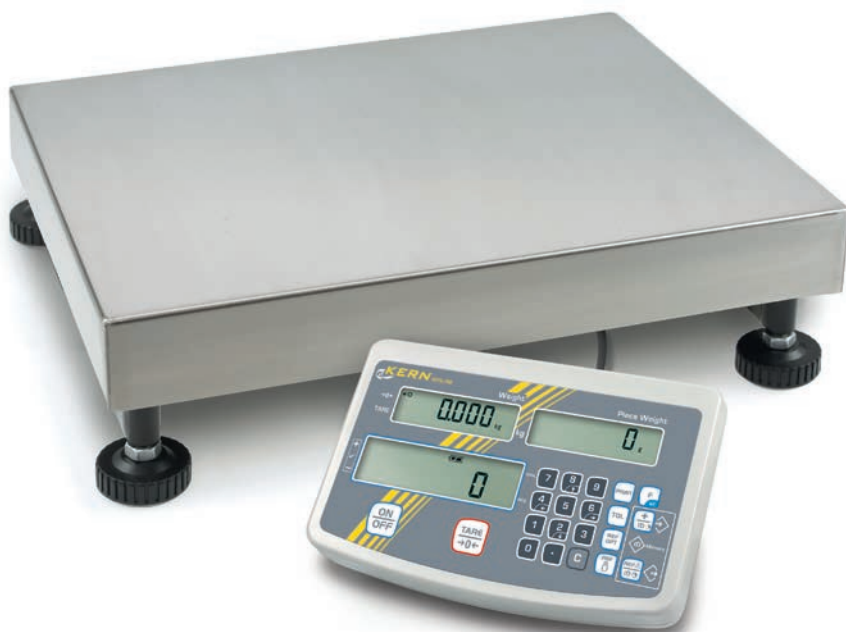


OPTION



Model	Weighing range [Max] kg	Readout [d] g	Min. piece weight [Counting] g/piece	Counting resolution Points	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
							DKD KERN	€
KERN								
CKE 360-3	0,36	0,001	0,001	360.000	A	310,-	963-127	72,-
CKE 2000-2	2	0,01	0,01	200.000	B	350,-	963-127	72,-
CKE 3600-2	3,6	0,01	0,01	360.000	B	370,-	963-127	72,-
CKE 6K0.02	6	0,02	0,02	300.000	C	500,-	963-128	88,-
CKE 8K0.05	8	0,05	0,05	160.000	C	460,-	963-128	88,-
CKE 16K0.05	16	0,05	0,05	320.000	C	560,-	963-128	88,-
CKE 16K0.1	16	0,1	0,1	160.000	C	460,-	963-128	88,-
CKE 36K0.1	36	0,1	0,1	360.000	C	520,-	963-128	88,-
CKE 65K0.2	65	0,2	0,2	325.000	C	520,-	963-129	105,-
CKE 65K0.5	65	0,5	0,5	130.000	C	480,-	963-129	105,-

Counting scale KERN IFS



Note:

Official verification duty for commercial trade.
The verification only refers to the weight of the counted parts

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

- **Industrial quality:** heavy version for tough usage in 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., for details see page 147, KERN KFS-TM
- **99 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

Technical data

- Large backlit LCD displays, digit height 16,5 mm
- Dimensions of display device WxDxH 260x150x65 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover** standard. Can be re-ordered, scope of delivery: 5 items, KERN KFB-A02S05, € 35,-
- **Stand** to elevate display device, height of stand approx. 330 mm, KERN IFB-A01, € 50,- height of stand approx. 600 mm, for models with weighing plate size ≥ 500x400x137 mm, KERN IFB-A02, € 60,-
- **Rechargeable battery pack internal**, operating time up to 40 h, charging time approx. 12 h, must be ordered at purchase, KERN KFS-A01, € 35,-
- **Suitable printers** see page 177 ff.

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verific. value [e] g	Min. piece weight [Counting] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate WxDxH mm	Price excl. of VAT ex works €	Options			
									Verification		DAkkS Calibr. Certificate	
KERN									M KERN	€	DKD KERN	€
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].												
IFS 10K-4	6 15	0,1 0,2		0,2	75.000	6,5	300x240x110	400,-	-	-	963-128	88,-
IFS 30K0.2DL	12 30	0,2 0,5		0,5	60.000	10	400x300x128	430,-	-	-	963-128	88,-
IFS 60K0.5D	30 60	0,5 1		1	60.000	10	400x300x128	430,-	-	-	963-129	105,-
IFS 60K0.5DL	30 60	0,5 1		1	60.000	16	500x400x137	520,-	-	-	963-129	105,-
IFS 100K-3	75 150	1 2		2,5	60.000	16	500x400x137	610,-	-	-	963-129	105,-
IFS 100K-3L	75 150	1 2		2,5	60.000	24	650x500x142	750,-	-	-	963-129	105,-
IFS 300K-3	150 300	2 5		5	60.000	24	650x500x142	750,-	-	-	963-129	105,-
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.												
IFS 6K-3M	3 6	1 2	1 2	0,1	60.000	6,5	300x240x110	410,-	965-228	55,-	963-128	88,-
IFS 10K-3M	6 15	2 5	2 5	0,2	75.000	6,5	300x240x110	410,-	965-228	55,-	963-128	88,-
IFS 10K-3LM	6 15	2 5	2 5	0,2	75.000	10	400x300x128	460,-	965-228	55,-	963-128	88,-
IFS 30K-3M	15 30	5 10	5 10	0,5	60.000	10	400x300x128	460,-	965-228	55,-	963-128	88,-
IFS 60K-2M	30 60	10 20	10 20	1	60.000	10	400x300x128	460,-	965-229	93,-	963-129	105,-
IFS 60K-2LM	30 60	10 20	10 20	1	60.000	16	500x400x137	550,-	965-229	93,-	963-129	105,-
IFS 100K-2M	60 150	20 50	20 50	2,5	60.000	16	500x400x137	550,-	965-229	93,-	963-129	105,-
IFS 100K-2LM	60 150	20 50	20 50	2,5	60.000	24	650x500x142	690,-	965-229	93,-	963-129	105,-
IFS 300K-2M	150 300	50 100	50 100	5	60.000	24	650x500x142	690,-	965-229	93,-	963-129	105,-



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

Features

- **Self-explanatory graphic control panel.**
The counting process 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:
 - 1 Place the empty container onto the weighing plate and tare by pressing the TARE key
 - 2 Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
 - 3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
 - 4 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

Technical data

- Backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxDxH
 - A 228x228x70 mm
 - B 308x318x75 mm
 - C 450x350x115 mm
- Dimensions of display device WxDxH 225x115x60 mm
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over the display device, standard. Can be re-ordered, scope of delivery: 5 items, KERN DE-A12S05, € 30,-
- **Wall mount** for display device, KERN DS-A02, € 30,-
- **Mount** to fasten the display device to the platform, KERN DE-A11N, € 35,-
- **5 Stand** to elevate display device, height of stand approx. 450 mm, KERN DE-A10, € 95,-
- **Rechargeable battery pack external**, operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KS-A01, € 180,-
- **Rechargeable battery pack internal**, operating time up to 15 hours with backlight, charging time approx. 10 h, can be retrofitted, KERN KB-A01N, € 50,-
- **Set for suspended weighing**, consists of platform, bow, hook, only for models with weighing plate B, KERN DS-A01, € 200,-
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD



OPTION



only B

Model	Weighing range [Max] kg	Readout [d] g	Min. piece weight [Counting] g/piece	Counting resolution Points	Net weight approx. kg	Cable length approx. m	Weighing plate	Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
									DKD KERN	€
KERN CDS 4K0.02	4	0,02	0,02	200.000	5,1	2	A	560,-	963-127	72,-
CDS 15K0.05	15	0,05	0,05	300.000	7,5	2	B	490,-	963-128	88,-
CDS 16K0.1	16	0,1	0,1	160.000	7,5	2	B	460,-	963-128	88,-
CDS 30K0.1	30	0,1	0,1	300.000	7,5	2	B	560,-	963-128	88,-
CDS 30K0.1L	30	0,1	0,1	300.000	9,5	0,6	C	690,-	963-128	88,-
CDS 36K0.2L	36	0,2	0,2	180.000	9,5	0,6	C	690,-	963-128	88,-
CDS 60K0.2	60	0,2	0,2	300.000	9,5	0,6	C	690,-	963-129	105,-
CDS 100K0.5	100	0,5	0,5	200.000	9,5	0,6	C	710,-	963-129	105,-



KERN

Stocktaking scales



Stocktaking in an instant

Save valuable time and money with application oriented balance-PC systems for rapid and reliable recording of stock levels. From the simple determination of weights in day-to-day operations, through its beneficial use as a checkweigher in Goods Inwards or picking small parts, to professional recording of your entire stock levels within the scope of a regular inventory – with the **KERN inventory system** you are always in safe hands.

KERN FKA and FKC – 2 trusty helpers

- » Barcode scanner can be connected for rapid item recognition
- » Easy selection of archived items using the practical search function
- » Rapid data transfer, e.g. excel stock lists from PC to the balance or recorded stock levels from the balance to the PC
- » It is possible to print out individual item stocks immediately using a printer
- » Up to 16 individual receipt print outs (also with company address) can be easily designed on the PC or the balance and archived in the balance
- » Used as a counting system the KERN FKC can achieve counting resolutions of up to 5 million parts with a high degree of accuracy
- » An inventory system which can be used in any location, and is easy to transport thanks to its compact dimensions and operation on battery or rechargeable battery

Your benefit

- Thanks to the stored item data, such as item name, piece weight, reference quantity, tare values of the packaging or storage boxes etc. this information does not to be recorded during the stocktake. That is a huge time saver
- There is no need for a separate stock list in paper form – which prevents information being entered wro
- When using a barcode scanner, the sources of error in confusion of items is practically eliminated – which ensures process reliability and accurate inventory data
- The recorded item stock can be printed out immediately and then put in the storage box or stuck on using the label printer – item specific with user, item description, date, time and quantity
- Items which are not in the database can easily be recorded on the balance and be transferred onto the stock list – which means the maximum flexibility when stocktaking
- For archived items, daily totals can be determined and transferred to the PC – in this way you are kept informed of the progress of the inventory at all times
- When using the KERN FKC counting system you can achieve extremely high counting resolutions of up to 5 million parts with a high degree of accuracy – which means that inventory data is accurate in just one work process and therefore save a lot of time



See for yourself just how easy **Goods Inwards** can be, with KERN ...



Stocktake scale with touchscreen to quickly measure the quantity of stock items and transfer the information to the PC

Features

- Application-orientated balance-PC system for rapid and reliable recording of stock levels, e.g. as part of a stocktake or goods inwards control
- **Using the software included as standard**, an excel list produced by a PC with stocktake items can be transferred to the balance. In the warehouse, stocktake items can then be weighed, counted and stored by the balance, while still in their containers. In doing this, the stored container weight will be subtracted automatically. After the stocktake, the stock level will then be transferred back to the PC and can then be processed further as an excel table. In this way the amount of work and input at the balance is kept to a minimum and time efficiency is maximised = saves costs
- **High Flexibility:** During stocktaking, stored PRE-TARE can be corrected immediately on the scale. Items which have not yet been recorded can easily entered using the scale and then transferred in the stock level list

- **1000 item memories** for master data, such as item number, PRE-TARE (container weight), reference quantity, refere, weight etc.
- During stocktaking it is possible to print individual items recorded
- Barcode scanner can be connected for rapid item recognition, with no confusion

Technical data

- Backlit and touch-sensitive LCD display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Dimensions housing WxDxH 350x390x120 mm
- Optional battery operation, 6 x 1.5 V Size C not included, operating time up to 15 h
- Net weight approx. 6,5 kg
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, KERN FKB-A02S05, **€ 30,-**
- **Rechargeable battery pack external**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Barcode scanner**, table-top version, dimensions WxDxH 230x150x135 mm, KERN SMT-A02, **€ 685,-**
- **Barcode scanner**, hand-held version, dimensions WxDxH 235x210x115 mm, KERN SMT-A03, **€ 445,-**
- **Radio barcode scanner**, hand-held version, dimensions WxDxH 225x220x110 mm, KERN SMT-A04, **€ 495,-**
- **Converter cable (RS-232 to USB)**, KERN AFH 12, **€ 85,-**
- **Y-cable**, KERN FKA-A01, **€ 46,-**
- **Suitable printers** and further, extensive accessories from page 177 ff.

STANDARD

CAL EXT

MEMORY

RS 232

PCS

UNIT

UNDER

BATT

MULTI

DMS

1 DAY

3 YEARS WARRANTY

OPTION

ACCU

DAKKS +3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Min. piece weight [Counting] g/piece	Weighing plate WxD mm	Price excl. of VAT ex works €	Option DAkKS Calibr. Certificate	
						DKD KERN	€
FKA 30K-4	36	0,1	0,1	340x240	950,-	963-128	88,-
FKA 60K-4	65	0,2	0,2	340x240	950,-	963-129	105,-

Price reduction

Stocktake scale KERN FKC



Quantity scale KERN FKA

Reference scale KERN KB-N



You will be impressed with how easy **stocktaking** is now, with KERN ...



Stocktaking scale with touchscreen to quickly measure the quantity of stock items and information to the PC

Features

- **Counting with a reference balance for high counting accuracy:** the highly accurate KERN FKC counting system can replace a whole range of individual balances, efficiently and at a reasonable price.
- The counting system consists of an FKA bulk scale (see p. 96 for details) and a KB-N reference balance KB-N (details see page 25) as well as an interface cable
- Application-orientated balance-PC system for rapid and reliable recording of stock levels, e.g. as part of a stocktake or goods inwards control
- **Item recognition using the optional barcode scanner is possible**, see accessories
- **Individual printout templates** can be stored for Weighing Mode and Counting Mode. Can be edited directly at the balance or at the PC
- **Note:** As well as stocktaking, the balance can be used in many other applications, e.g. as a weighing scale, commissioning balance or as a professional counting scale with item

memory for up to 500 items and associated daily totals memory for each item.

Technical data

Reference scale KB:

- Backlit LCD display, digit height 9 mm
- Weighing plate dimensions, stainless steel, Ø/WxD
KB 120-3N: Ø 81 mm
KB 1200-2N: 130x130 mm
- Dimensions housing WxDxH 167x250x85 mm
- Permissible ambient temperature 10 °C / 40 °C

Quantity scale FKA:

- Backlit and touch-sensitive LCD display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Dimensions housing WxDxH 350x390x120 mm
- Optional battery operation, 6 x 1.5 V Size C not included, operating time up to 15 h
- Permissible ambient temperature 10 °C / 40 °C

Accessories

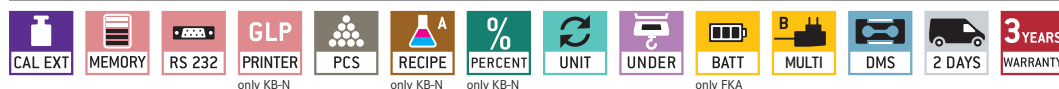
Reference scale KB-N:

- **Protective working cover** over keyboard and housing, standard. Can be re-ordered, scope of delivery: 5 items, **€ 30,-**
KB 120-3N: KERN PCB-A02S05
KB 1200-2N: KERN PCB-A04S05
- **Rechargeable battery pack external**, operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**

Reference scale FKA:

- **Barcode scanner**, table-top version, dimensions WxDxH 230x150x135 mm, KERN SMT-A02, **€ 685,-**
- **Barcode scanner**, hand-held version, dimensions WxDxH 235x210x115 mm, KERN SMT-A03, **€ 445,-**
- **Radio barcode scanner**, hand-held version, dimensions WxDxH 225x220x110 mm, KERN SMT-A04, **€ 495,-**
- Further accessory see page 96

STANDARD



OPTION



Model	Quantity scale	Weighing range [Max] kg	Readout [d] g	Weighing plate WxD mm	Reference scale	Weighing range [Max] g	Readout [d] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
KERN	FKA				KB-N					DKD KERN	€
FKC 30K-6	FKA 30K-4	36	0,1	340 x 240	KB 120-3N	120	0,001	0,001	1280,-	962-128-127	145,-
FKC 30K-5	FKA 30K-4	36	0,1	340 x 240	KB 1200-2N	1200	0,01	0,01	1260,-	962-128-127	145,-
FKC 60K-6	FKA 60K-4	65	0,2	340 x 240	KB 120-3N	120	0,001	0,001	1280,-	962-129-127	160,-
FKC 60K-5	FKA 60K-4	65	0,2	340 x 240	KB 1200-2N	1200	0,01	0,01	1260,-	962-129-127	160,-



Quantity scale KERN KFP

Reference scale KERN CFS

Counting system to count the smallest parts in the largest quantities,
counting resolution up to 999,999 points

Features

• This highly accurate counting system

KERN CCS can replace a whole range of individual counting scales, efficiently and at a reasonable price

Reference scale KERN CFS:

- This professional KERN CFS counting scale, which can also be used as a stand-alone scale, meets the highest demands for accuracy, weighing range and volume of items, by being connected to a high-capacity weighing bridge

• Programmable using numerical key pad:

- required reference quantity
- known reference weight

• Memory (→ PLU) for 100 items with additional text

• Fill-to-target function: Programmable target weight. An acoustic and visual signal will be displayed when the target value is reached

• Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value

- For additional details on the KERN CFS reference scale, see page 91

Quantity scale KERN KFP:

- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN KFP

• Stainless steel weighing plate, painted steel base with **A - E**

• Aluminium singlepoint load cell (1 x 3000 e), protection against dust and water splashes IP65

- For additional details on the KERN KFP and KFU quantity scale, see page 150 - 152

Counting system KERN CCS



Technical data

CFS:

- Large backlit LCD displays, digit height 20 mm
- Overall dimensions WxDxH 320x350x125 mm
- Weighing plate dimensions, stainless steel
 - 1 CFS 300-3 Ø 80 mm
 - CFS 3K-5, CFS 6K0.1 WxD 294x225 mm
- Net weight approx. 3,3 kg

KFP/KFU:

- Weighing plate dimensions, stainless steel, WxDxH
 - A 230x230x110 mm
 - B 300x240x110 mm
 - C 400x300x128 mm
 - D 500x400x137 mm
 - E 650x500x142 mm
 - F 1000x1000x80 mm
 - G 1500x1250x80 mm
 - H 1500x1500x80 mm
 - I 842x1300x90 mm

- Connection cable

- A - E approx. 2,5 m
- F - I approx. 5 m

Accessories

- **Reference scale** also available separately, for details, see page 91, KERN CFS 300-3, **€ 350,-**, KERN CFS 3K-5, **€ 300,-**, KERN CFS 6K0.1, **€ 270,-**
- **Protective working cover** over keyboard and housing standard. Can be re-ordered, scope of delivery: 5 items, for models with weighing plate size WxD 300x225 mm, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 70 h without backlight, charging time approx. 14 h, not for models CFS 300-3, KERN GAB-A04, **€ 40,-**

1 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

- **2 Signal lamp** for visual support of weighing with tolerance range. Three-colour LED (yellow, green, red). Overall dimensions WxDxH 100x180x300 mm, for details, see page 181, KERN CFS-A03, **€ 250,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, for details, see page 181, KERN CFS-A04, **€ 35,-**
- **Suitable printers** and further, extensive accessories from page 177

STANDARD



OPTION



Model	Quantity scale	Weighing range [Max] kg	Readout [d] g	Weighing plate	Reference scale	Weighing range [Max] g	Readout [d] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
										DKD KERN	€
CCS 6K-6	KFP 6V20M	6	2	A	CFS 300-3	300	0,001	0,005	670,-	962-128-127	145,-
CCS 10K-6	KFP 15V20M	15	5	B	CFS 300-3	300	0,001	0,005	710,-	962-128-127	145,-
CCS 30K0.01.	KFP 30V20M	30	10	C	CFS 3K-5	3000	0,01	0,05	580,-	962-128-127	145,-
CCS 30K0.1.	KFP 30V20M	30	10	C	CFS 6K0.1	6000	0,1	0,1	570,-	962-128-128	175,-
CCS 60K0.01.	KFP 60V20M	60	20	C	CFS 3K-5	3000	0,01	0,05	580,-	962-129-127	160,-
CCS 60K0.01L.	KFP 60V20LM	60	20	D	CFS 3K-5	3000	0,01	0,05	660,-	962-129-127	160,-
CCS 60K0.1.	KFP 60V20M	60	20	C	CFS 6K0.1	6000	0,1	0,1	550,-	962-129-128	175,-
CCS 60K0.1L.	KFP 60V20LM	60	20	D	CFS 6K0.1	6000	0,1	0,1	610,-	962-129-128	175,-
CCS 150K0.01	KFP 150V20M	150	50	D	CFS 3K-5	3000	0,01	0,05	660,-	962-129-127	160,-
CCS 150K0.01L	KFP 150V20LM	150	50	E	CFS 3K-5	3000	0,01	0,05	890,-	962-129-127	160,-
CCS 150K0.1.	KFP 150V20M	150	50	D	CFS 6K0.1	6000	0,1	0,1	610,-	962-129-128	175,-
CCS 150K0.1L	KFP 150V20LM	150	50	E	CFS 6K0.1	6000	0,1	0,1	850,-	962-129-128	175,-
CCS 300K0.1	KFP 300V20M	300	100	E	CFS 6K0.1	6000	0,1	0,1	850,-	962-129-128	175,-
CCS 300K0.01	KFP 300V20M	300	100	E	CFS 3K-5	3000	0,01	0,05	890,-	962-129-127	160,-
CCS 600K-2	KFP 600V20SM	600	200	F	CFS 3K-5	3000	0,01	0,05	1450,-	962-130-127	237,-
CCS 600K-2L	KFP 600V20M	600	200	G	CFS 3K-5	3000	0,01	0,05	1850,-	962-130-127	237,-
CCS 600K-2U	KFU 600V20M	600	200	I	CFS 3K-5	3000	0,01	0,05	1350,-	962-130-127	237,-
CCS 1T-1	KFP 1500V20SM	1500	500	F	CFS 6K0.1	6000	0,1	0,1	1390,-	962-130-128	253,-
CCS 1T-1L	KFP 1500V20M	1500	500	G	CFS 6K0.1	6000	0,1	0,1	1890,-	962-130-128	253,-
CCS 1T-1U	KFU 1500V20M	1500	500	I	CFS 6K0.1	6000	0,1	0,1	1290,-	962-130-128	253,-
CCS 3T-1	KFP 3000V20M	3000	1000	G	CFS 6K0.1	6000	0,1	0,1	1950,-	962-132-128	528,-
CCS 3T-1L	KFP 3000V20LM	3000	1000	H	CFS 6K0.1	3000	0,01	0,1	2050,-	962-132-128	528,-



Quantity scale KERN KXP



Reference scale KERN ILT

Premium counting system for high-capacity counting applications with the highest level of accuracy, counting resolution up to 6 million points



Easy entering of item data using the connected barcode or RFID scanner



High level of connectivity

- 1 x Ethernet
- 2 x RS-232
- 2 x USB e.g. for data exchange or connecting barcode or RFID scanners
- 1 x WLAN
- Digital I/O (4 in/4 out) e.g. to control machines and plants
- 1 x Interface for additional display



On the basis of the KERN ILT reference balance, you can put together a wide range of high-performance counting systems, for example, with an additional bulk balance, to cover more weighing ranges - your KERN product specialist will be pleased to advise you

Premium counting system KERN CCP

Features

- **This highly accurate counting system**
KERN CCP can replace a whole range of individual counting scales, efficiently and at a reasonable price
- **High level of connectivity:** Thanks to a range of integrated interfaces
- **Alibi memory:** Electronic archiving of weighing results, see also page 214
- **Data interface USB** for transferring weighing data to the PC, printer, USB sticks etc.
- **User-friendly batch management**
- **Individual print formats**

Reference scale KERN ILT:

- The counting system is operated using the KERN ILT touchscreen reference balance and offers the full range of functions for demanding counting applications
- This professional touchscreen platform scale KERN ILT which can also be used as a stand-alone scale, meets even the highest demands for accuracy, weighing range and volume of items (up to 6 millions items)
- **Intuitive operation using the touch display** increases efficiency and saves costs
- **Creation and recall items to be counted from the database (8 GB)** with all relevant additional data such as piece weight, name, price (for internal valuation), reference quantity, tare container weight, barcode, item image etc.
- **Fill-to-target function:** Programmable target weight. A visual signal will be displayed when the target value is reached
- **Precise counting:** The automatic reference weight optimisation gradually improves the average value of the piece weight
- For additional details on the KERN ILT reference scale, see page 120/121

Quantity scale KERN KXP/KFP:

- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN KXP/KFP. In this way even the smallest of parts can be counted in large volumes
- **Stainless steel weighing plate**, painted steel base, extremely resistant to bending, wing design, aluminium singlepoint load cell, 3000 e, protection against dust and water splashes IP65
- **KFP only:** Weighing bridge painted steel, extremely resistant to bending due to material thickness, four load cells, steel, 3000 e, dust and spray protection IP67
- For additional details on the KERN KXP quantity scale, see page 150, KERN KFP, see page 151

Technical data

ILT:

- **Backlit and touch-sensitive LCD display** with digit height 21 mm, screen diagonal 5,7" (approx. 145 mm)
- Weighing plate dimensions, stainless steel, WxDxH
ILT 6K-4BAM: 195x195 mm
ILT 6K-3GAM: 230x230 mm
ILT 10K-3GAM: 300x240 mm
- Connection cable approx. 3 m
- Permissible ambient temperature
15 °C / 35 °C

KXP V20 IP65/KFP V20 IP65:

- Weighing plate dimensions, WxDxH
A 300x240 mm, stainless steel
B 400x3000 mm, stainless steel
C 500x400 mm, stainless steel
D 1500x1250 mm, steel, lacquered
E 1500x1500 mm, steel, lacquered
- Permissible ambient temperature
-10 °C / 40 °C

Accessoires

ILT:

- **Transponder card reader**, for additional details, see page 186, KERN KET-A05, **€ 450,-**
- **Transponder card**, for additional details, see page 186, KERN KET-A08, **€ 65,-**
- **RS-232 barcode scanner**, for additional details, see page 184, KERN PET-A05, **€ 350,-**
- **USB barcode scanner**, for additional details, see page 184, KERN PET-A09, **€ 350,-**
- **Wall mount** for display device, for additional details, see page 186, KERN KET-A02, **€ 190,-**
- **Second display**, for additional details, see page 185, KERN KET-A03, **€ 210,-**
- **Large display**, for additional details, see page 185, KERN KET-A06, **€ 1450,-**
- **Direct thermal label printer**, for additional details, see page 184, KERN PET-A13, **€ 980,-**
- **Thermal transfer and direct thermal label printer**, for additional details, see page 184, KERN PET-A14, **€ 1000,-**
- **Software for database management**, for additional details, see page 184, KERN KET-A04, **€ 300,-**
- **Suitable printers** and further, extensive accessories from page 177

STANDARD



STANDARD



OPTION

Model	Quantity scale	Weighing range [Max] kg	Weighing plate	Reference scale	Weighing range [Max] kg	Readout [d] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Option	
									DAKKS Calibr. Certificate	
KERN	KXP/KFP			ILT					DKD KERN	€
CCP 10K-4	KXP 15V20M	15	A	ILT 6K-4BAM	6	0,1	0,1	2900,-	962-128-128	175,-
CCP 30K-4	KXP 30V20M	30	B	ILT 6K-4BAM	6	0,1	0,1	3000,-	962-128-128	175,-
CCP 60K-4	KXP 60V20M	60	B	ILT 6K-4BAM	6	0,1	0,1	2900,-	962-129-128	175,-
CCP 60K-4L	KXP 60V20LM	60	C	ILT 6K-4BAM	6	0,1	0,1	3000,-	962-129-128	175,-
CCP 100K-3	KXP 150V20M	150	C	ILT 10K-3GAM	6 15	2 5	0,1	2600,-	962-129-128	175,-
CCP 600K-4	KXP 600V20M	600	D	ILT 6K-4BAM	6	0,1	0,1	4200,-	962-130-128	253,-
CCP 600K-3	KXP 600V20M	600	D	ILT 6K-3GAM	3 6	1 2	0,1	3800,-	962-130-128	253,-
CCP 3T-7	KXP 3000V20M	3000	D	ILT 6K-4BAM	6	0,1	1	3300,-	962-132-128	528,-
CCP 3T-7L	KFP 3000V20LM	3000	E	ILT 6K-4BAM	6	0,1	2	3300,-	962-132-128	528,-



Reference scale KERN PLJ-C

Quantity scale KERN ILT

Premium counting system with EC type approval [M], for complex counting applications with the highest level of accuracy, counting resolution up to 6 million points

Features

- **This highly accurate counting system**
KERN CCT can replace a whole range of individual counting scales, efficiently and at a reasonable price
- Thanks to **EC type approval [M]** this counting system can also be used in verified applications, e.g. for order picking packaged items, etc.
- **Alibi Memory:** Paperless archiving of up to 100,000 weighing results For weighings where verification is mandatory, and which are to be analysed and processed by a PC, the legislative body requires electronic archiving using a verifiable, non-manipulatable data memory

- **High level of connectivity:** Thanks to a range of integrated interfaces
- **Data interface USB:** for transferring weighing data to the PC, printer, USB sticks etc.
- **Individual print formats:** Printouts can be individually adjusted depending on operating mode, application or your own requirements, directly at the balance or the PC

Reference scale KERN PLJ-C/AEJ-C:

- The highly accurate reference balances KERN PLJ-C and AEJ-C determine the piece weight of items to be counted with the highest level of precision

- These precision balances, which can also be used as individual balances, can fulfil even the highest level of requirements for accuracy, weighing range and volume of items (up to 6 million items) through connection to a high-capacity platform scale
- **Automatic internal adjustment** in the case of a change in temperature $\geq 3^\circ\text{C}$ or time-controlled every 3 hours, guarantees high degree of accuracy
- **Internal memory** for up to 999 weighing results, 1000 items, 100 container weights, 100 users
- For additional details on the KERN PLJ-C reference scale, see page 33, KERN AEJ-CM, see page 48

Premium counting system KERN CCT

Quantity scale KERN ILT:

- The high-accuracy quantity counting takes place on the platform scale KERN ILT
- The counting system is operated using the premium display device of the KERN ILT bulk balance and offers the full range of functions for demanding counting applications
- **Intuitive operation using the touch display** increases efficiency and saves costs
- **Creation and recall items to be counted from the database (8 GB)** with all relevant additional data such as piece weight, name, price (for internal valuation), reference quantity, tare container weight, barcode, item image etc.
- **User-friendly batch management**
- **Fill-to-target function:** Programmable target weight. An acoustic and visual signal will be displayed when the target value is reached
- **Precise counting:** The automatic reference weight optimisation gradually improves the average value of the piece weight
- Thanks to its wide range of functions and large database, this touchscreen platform scale, which can also be used as individual scale, is particularly suitable for complex recipe or checkweighing applications, as well as classic counting and weighing applications
- For additional details on the KERN ILT quantity scale, see page 120/121

Technical data

PLJ-C:

- Backlit LCD display, digit height, 17 mm
- Weighing plate dimensions, stainless steel, WxD
PLJ 300-3CM, PLJ 600-3CM: 128x128 mm
PLJ 3000-2CM: 195x195 mm
- Connection cable approx. 15 m
- Total dimensions, WxDxH without draft shield 206x332x88 mm, draft shield incl. 206x332x170 mm
- Net weight approx. 3,6 kg (draft shield incl. approx. 4,7 kg)
- Permissible ambient temperature 15 °C/30 °C

AEJ-C:

- Backlit LCD display, digit height, 17 mm
- Weighing plate dimensions Ø 85 mm
- Total dimensions, WxDxH 206x335x335 mm
- Net weight approx. 5 kg
- Permissible ambient temperature 18 °C / 30 °C

ILT:

- Weighing plate dimensions, stainless steel, WxD
A 195x195 mm
B 300x240 mm
C 400x300 mm
D 500x400 mm
- Connection cable approx. 1,5 m
- Permissible ambient temperature 15 °C / 35 °C

Accessoires

PLJ-C:

- **WLAN interface** for wireless connection of the balance to networks and WLAN capable devices, such as tablets, laptops or Smartphones, can not be reordered, please ask for delivery time, KERN PLJ-A06, **€ 135,-**

ILT:

- **Transponder card reader**, for additional details, see page 186, KERN KET-A05, **€ 450,-**
- **Transponder card**, for additional details, see page 186, KERN KET-A08, **€ 65,-**
- **RS-232 barcode scanner**, for additional details, see page 184, KERN PET-A05, **€ 350,-**
- **USB barcode scanner**, for additional details, see page 184, KERN PET-A09, **€ 350,-**
- **USB keyboard**, for additional details, see page 185, KERN PET-A06, **€ 45,-**
- **Wall mount** for display device, for additional details, see page 186, KERN KET-A02, **€ 190,-**
- **Second display**, for additional details, see page 185, KERN KET-A03, **€ 210,-**
- **Large display**, for additional details, see page 185, KERN KET-A06, **€ 1450,-**
- **Analogue/Digital converter**, for additional details, see page 186, KERN KET-A01, **€ 350,-**
- **Direct thermal label printer**, for additional details, see page 184, KERN PET-A13, **€ 980,-**
- **Thermal transfer and direct thermal label printer**, for additional details, see page 184, KERN PET-A14, **€ 1000,-**
- **Software for database management**, for additional details, see page 184, KERN KET-A04, **€ 300,-**
- **PLJ-C only: Software for reading from the alibi memory in KERN balances**, for additional details, see page 179, KERN PET-A16, **€ 300,-**
- **Suitable printers** and further, extensive accessories from page 177

STANDARD



OPTION FACTORY

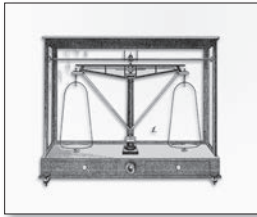


Model	Quantity scale	Weighing range [Max] kg	Weighing plate	Reference scale	Weighing range [Max] g	Readout [d] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options			
									Verification		DAKKS Calibr. Certif.	
									KERN	€	KERN	€
KERN	ILT			PLJ/AEJ								
CCT 6K-6	ILT 6K-4BAM	6	A	PLJ 300-3CM	360	0,001	0,001	4100,-	965-217-216	143,-	962-128-127	145,-
CCT 10K-6	ILT 10K-3GAM	6 15	B	PLJ 300-3CM	360	0,001	0,001	2700,-	965-228-216	121,-	962-128-127	145,-
CCT 10K-7	ILT 10K-3GAM	6 15	B	AEJ 200-4CM	220	0,0001	0,0001	3100,-	965-228-201	165,-	962-128-101	226,-
CCT 30K-5	ILT 30K-2GAM	15 30	C	PLJ 3000-2CM	3500	0,01	0,01	2800,-	965-228-216	121,-	962-128-127	145,-
CCT 60K-6	ILT 60K-2GAM	30 60	C	PLJ 600-3CM	600	0,001	0,001	2800,-	965-229-216	159,-	962-129-127	160,-
CCT 60K-5	ILT 60K-2GAM	30 60	C	PLJ 3000-2CM	3500	0,01	0,01	2800,-	965-229-216	159,-	962-129-127	160,-
CCT 60K-5L	ILT 60K-2LGAM	30 60	D	PLJ 3000-2CM	3500	0,01	0,01	3000,-	965-229-216	159,-	962-129-127	160,-
CCT 100K-5	ILT 100K-2GAM	60 150	D	PLJ 3000-2CM	3500	0,01	0,01	2900,-	965-229-216	159,-	962-129-127	160,-
CCT 100K-5L	ILT 100K-2LGAM	60 150	D	PLJ 3000-2CM	3500	0,01	0,01	2900,-	965-229-216	159,-	962-129-127	160,-
CCT 300K-5	ILT 300K-2GAM	150 300	D	PLJ 3000-2CM	3500	0,01	0,01	3000,-	965-229-216	159,-	962-129-127	160,-

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.

Tradition and innovation for more than 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.



► 1844

KERN is founded – precision balances are produced



► 1863

A proud Gottlieb Kern with his staff



► 1880

Pharmaceutical balance with Aesculap



► 1923

Inflation – KERN wages are paid with self printed currency



► 1980

The electronic balance ousts mechanical devices



► 1994

Accredited DKD laboratory (ISO 17025)



► 2000

New premises in Balingen



► 2002

Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards



► 2007

Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)



► 2008

Authorisation for initial verification by the manufacturer (2009/23/EC)



► 2009

Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)



► 2012

Verification point for non-automatic balances and test weights.

New customer portal www.kern-sohn.com goes live



► 2014

Expansion of the product range to include optical instruments (microscopes and refractometers)



► 2015

Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse



Our Tip

Come to see the Museum of scale and weight ...



How a scale learned to weigh! Come and experience KERN history in the Zollernschloss at Balingen ...

www.balingen.de
→ "Kultur"

KERN – Tradition and Innovation for over 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.

fast

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

reliable

- 3 years warranty for balances over € 400,-
- Precision in weighing technology for more than 170 years

competent

- DAkkS accreditation DIN EN ISO/IEC 17025
- Certified QM system DIN EN ISO 9001:2008
- Authorisation for initial verification by the manufacturer 2009/23/EC
- Medical certifications DIN EN ISO 13485 and 93/42/EEC

versatile

- One-stop shopping: from pocket balances through to floor scales – everything from one supplier
- Find the product you want at lightning speed with the “Balance Quick-Finder” at www.kern-sohn.com



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Online-Shop

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from Monday to Friday
from 8:00 am to 6:00 pm



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info@kern-sohn.com



Calibration hotline

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Fax Order

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www.kern-sohn.com

For product specification sheets, user manuals, useful information, technical glossary pictures and much more as well as a smart search engine for test weights and balances

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