KERN®

COUNTING SCALES/COUNTING SYSTEMS/
SPECIAL STOCKTAKING SCALES

PROFESSIONAL
MEASURING

251 Pcs

1.86120 0.00120

1551

2015

KERN Pictograms

Internal adjusting:
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).

Recipe level A:
Separate memory for the weight of the tare container and the recipe ingredients (net total).

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 B:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.

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 C:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation functions.

Rechargeable battery pack:
Rechargeable set.

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, AUS or USA 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, AUS or USA 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. Additional convenient functions, such as barcode and back calculation.

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.

Tuning fork principle:
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 %).

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.

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.

Vibration-free weighing:
(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.

DAkkS calibration possible:
The time required for DAkkS calibration is shown in days in the pictogram.

GLP/ISO log:
The balance displays the weight, date and time, regardless of a printer connection.

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram. For details see the glossary.

Package 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"

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.

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

Stainless steel:
The balance is protected against corrosion.

Warranty:
The warranty period is shown in the pictogram.

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.

Medical scales catalogue

Complete line of medical scales, from infant scales to professional patient scales, chair scales and adiposity scales, as well as innovative hand grip dynamometres, 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 hardness measuring systems.

KERN DAkkS calibration service brochure

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

KERN branch prospectuses

Compact overview of the bestsellers for many different lines of business – just the balances your customers need!

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

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).

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

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).

3 years warranty
Items under € 400,–

No stock-keeping necessary.
KERN does the warehousing for you.

Sale or return
within 14 days of purchase.

SMT 89	**IFS** 94
Innovative stocktaking scale with touchscreen to efficiently measure beverage residuals in bottles and information transfer to the PC	Industrial counting scale with convenient keypad for easy data entry - now also with EC type approval [M], counting resolution up to 75,000 points
CXB-N 90	**CDS** 95
Entry level model in professional counting, also with EC type approval [M], counting resolution of 30,000 points	Easy to use industrial counting scale for heavy loads, counting resolution up to 300,000 points
CPB 91	**CCS** 96
Professional model, also with EC type approval [M], counting resolution up to 60,000 points	Counting system to count very small parts in largest quantities, counting resolution up to 999,999 points
CFS 92	**FKA** 98
Professional, high-resolution counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 points	**Stocktaking scale** with touchscreen to quickly measure the quantity of stock items and information transfer to the PC
CKE 93	**FKC** 99
Easy to use, self-explanatory counting scale with laboratory accuracy, counting resolution up to 360,000 points	**High-resolution stocktaking counting system** with touchscreen to quickly measure the quantity of stock items and information transfer to the PC

Counting, doing it right!

For counting correctly a few parameters need to be taken account when selecting a counting scale.

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 you choose a counting scale with a minimum piece weight is smaller than the weight 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 ≤ 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 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 191 – 192*

Your KERN product specialist will be happy to help:


Tanja Jetter
Product specialist Counting scales

Tel.   +49 [0] 7433 9933 - 168
Fax   +49 [0] 7433 9933 - 29168
tanja.jetter@kern-sohn.com

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	M	CAL EXT	MEMORY	RS 232	DUAL	PCS	ACCU
								For an explanation on the pictos, see the front flap				
0,001 g	0,3 kg	CFS 300-3	350,-	92	1		●	●	●	●	●	○
0,001 g	0,36 kg	CKE 360-3	370,-	93	1		●		●	●	●	○
0,001 g	6 kg	CCS 6K-6	670,-	96	2		●	●	●	●	●	○
0,001 g	15 kg	CCS 10K-6	710,-	96	2		●	●	●	●	●	○
0,001 g	36 kg	FKC 30K-6	1280,-	99	2		●	●	●	●	●	○
0,001 g	65 kg	FKC 60K-6	1280,-	99	2		●	●	●	●	●	○
0,01 g	2 kg	CKE 2000-2	350,-	93	1		●		●		●	○
0,01 g	3 kg	CFS 3K-5	290,-	92	1		●	●	●	●	●	○
0,01 g	3,6 kg	CKE 3600-2	370,-	93	1		●		●		●	○
0,01 g	30 kg	CCS 30K0.01	580,-	96	2		●	●	●	●	●	○
0,01 g	60 kg	CCS 60K0.01	580,-	96	2		●	●	●	●	●	○
0,01 g	150 kg	CCS 150K0.01	650,-	96	2		●	●	●	●	●	○
0,01 g	300 kg	CCS 300K0.01	840,-	96	2		●	●	●	●	●	○
0,01 g	36 kg	FKC 30K-5	1260,-	99	2		●	●	●	●	●	○
0,01 g	60 kg	CCS 60K0.01L	660,-	96	1		●	●	●	●	●	○
0,01 g	65 kg	FKC 60K-5	1260,-	99	2		●	●	●	●	●	○
0,01 g	150 g	CCS 150K0.01L	850,-	96	1		●	●	●	●	●	○
0,01 g	600 kg	CCS 600K-2L	1850,-	96	1		●	●	●	●	●	○
0,01 g	600 kg	CCS 600K-2	1450,-	96	2		●	●	●	●	●	○
0,01 g	3000 kg	CCS 3T-1L	1990,-	96	1		●	●	●	●	●	○
0,02 g	4 kg	CDS 4K0.02	560,-	95	1		●		●		●	○
0,02 g	6 kg	CKE 6K0.02	500,-	93	1		●		●		●	○
0,05 g	8 kg	CKE 8K0.05	460,-	93	1		●		●		●	○
0,05 g	15 kg	CDS 15K0.05	490,-	95	1		●		●		●	○
0,05 g	16 kg	CKE 16K0.05	560,-	93	1		●		●		●	○
0,1 g	6 kg	CPB 6K0.1N	225,-	91	1		●		●		●	○
0,1 g	6 kg	CFS 6K0.1	270,-	92	1		●	●	●	●	●	○
0,1 g	16 kg	CKE 16K0.1	460,-	93	1		●		●		●	○
0,1 g	16 kg	CDS 16K0.1	460,-	95	1		●		●		●	○
0,1 g	30 kg	CDS 30K0.1	560,-	95	1		●		●		●	○
0,1 g	30 kg	CCS 30K0.1	570,-	96	2		●	●	●	●	●	○
0,1 g	36 kg	CKE 36K0.1	510,-	93	1		●		●		●	○
0,1 g	36 kg	FKA 30K-4	950,-	98	1		●	●	●		●	○
0,1 g	60 kg	CCS 60K0.1	550,-	96	2		●	●	●	●	●	○
0,1 g	60 kg	CCS 60K0.1L	610,-	96	1		●	●	●	●	●	○
0,1 g	150 kg	CCS 150K0.1	610,-	96	2		●	●	●	●	●	○
0,1 g	150 kg	CCS 150K0.1L	820,-	96	1		●	●	●	●	●	○
0,1 g	300 kg	CCS 300K0.1	810,-	96	2		●	●	●	●	●	○
0,1 g	1500 kg	CCS 1T-1	1390,-	96	2		●	●	●	●	●	○
0,1 g	1500 kg	CCS 1T-1L	1890,-	96	1		●	●	●	●	●	○
0,1 g	3000 kg	CCS 3T-1	1950,-	96	2		●	●	●	●	●	○
0,1 | 0,2 g	6 | 15 kg	IFS 10K-4	370,-	94	1		●		●		●	○
0,2 g	3 kg	CXB 3K0.2	220,-	90	1		●				●	●
0,2 g	15 kg	CPB 15K0.2N	225,-	91	1		●		●		●	○
0,2 g	15 kg	CFS 15K0.2	270,-	92	1		●	●	●	●	●	○
0,2 g	36 kg	CDS 36K0.2L	650,-	95	1		●		●		●	○
0,2 g	60 kg	CDS 60K0.2	660,-	95	1		●		●		●	○
0,2 g	65 kg	CKE 65K0.2	510,-	93	1		●		●		●	○
0,2 g	65 kg	FKA 60K-4	950,-	98	1		●	●	●		●	○
0,2 | 0,5 g	12 | 30 kg	IFS 30K0.2DL	430,-	94	1		●		●		●	○
0,5 g	6 kg	CXB 6K0.5	220,-	90	1		●				●	●
0,5 g	30 kg	CPB 30K0.5N	225,-	91	1		●		●		●	○
0,5 g	30 kg	CFS 30K0.5	270,-	92	1		●	●	●	●	●	○
0,5 g	65 kg	CKE 65K0.5	480,-	93	1		●		●		●	○
0,5 g	100 kg	CDS 100K0.5	660,-	95	1		●		●		●	○
0,5 | 1 g	30 | 60 kg	IFS 60K0.5D	430,-	94	1		●		●		●	○
1 g	3 kg	CXB 3K1NM	235,-	90	1	○	●				●	●
1 g	10 kg	SMT 10K-3	950,-	89	1		●	●	●			●
1 g	15 kg	CXB 15K1	220,-	90	1		●				●	●
1 g	50 kg	CFS 50K-3	290,-	92	1		●	●	●	●	●	○
1 | 2 g	3 | 6 kg	CPB 6K1DM	225,-	91	1	○	●		●		●	○
1 | 2 g	3 | 6 kg	IFS 6K-3M	410,-	94	1	○	●		●		●	○
1 | 2 g	75 | 150 kg	IFS 100K-3	560,-	94	1		●		●		●	○
2 g	6 kg	CXB 6K2NM	235,-	90	1	○	●				●	●
2 g	30 kg	CXB 30K2	220,-	90	1		●				●	●
2 | 5 g	6 | 15 kg	CPB 15K2DM	225,-	91	1	○	●		●		●	○
2 | 5 g	6 | 15 kg	IFS 10K-3M	410,-	94	1		●		●		●	○
2 | 5 g	150 | 300 kg	IFS 300K-3	700,-	94	1		●		●		●	○
5 g	15 kg	CXB 15K5NM	235,-	90	1	○	●				●	●
5 | 10 g	15 | 30 kg	CPB 30K5DM	225,-	91	1	○	●		●		●	○
5 | 10 g	15 | 30 kg	IFS 30K-3M	460,-	94	1	○	●		●		●	●
10 g	30 kg	CXB 30K10NM	235,-	90	1	○	●				●	●
10 | 20 g	30 | 60 kg	IFS 60K-2M	460,-	94	1	○	●		●		●	○
20 | 50 g	60 | 150 kg	IFS 100K-2M	550,-	94	1	○	●		●		●	○
50 | 100 g	150 | 300 kg	IFS 300K-2M	460,-	94	1	○	●		●		●	○

● = Standard   ○ = Option

Bottle stocktaking scale KERN SMT

Innovative stocktaking scale with touchscreen to efficiently measure beverage residuals in bottles and information transfer to the PC

Features

- **Your advantage:** Less time consuming, compared with the measuring method used up to now
  - Up to now: Generally, the content of a bottle is established by a visual check, i.e. estimated, documented manually and then manually entered into the PC.
  - New with KERN SMT: Now you can easily select drinks and spirits by item name, item number, autolist or using a barcode scanner, then you can weigh the bottle, transfer the results to the PC - and stocktaking is done!
- **400 item memories** for master data such as item name, item description, PRE-TARE, i.e. weight of the empty bottle, max. bottle content in g, specific weight of liquid etc. The associated stock list can easily be generated at the PC
- **Easy entering of items at the PC:** An excel list with spirit bottles produced at a PC can be transferred to the balance using the software included as standard. Whether in the bar or in the warehouse, the spirits can be weighed in their bottles. In Doing so, the stored bottle weight will be subtracted automatically. After the stocktaking, the results will be transferred back to the PC where they can then be processed further as an Excel table

- Determination of beverage inventory according to an internal stock list
- **Selecting the spirit:** During stocktaking, the beverage to be registered can be selected using item name, item number, autolist or using a barcode scanner

Technical data

- Backlit LCD graphic display with digit height 13 mm, screen diagonal 4,3" (approx. 109 mm)
- Weighing plate dimensions, stainless steel, WxD 160x200 mm
- Overall dimensions WxDxH 180x310x85 mm
- Rechargeable battery pack internal, standard, operating time up to 12 h without backlight, charging time approx. 10 h
- Net weight approx. 2,7 kg
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be retrofitted, KERN 572-A02, **€ 25,-**
- **Volume kit** for determining the specific weight of beverages, scope of delivery: precision balance KERN EMB 600-2, beaker, pipette, KERN SMT-A05, **€ 350,-**

Modes
① Weighing
② Determination stock level

Functions
- Capacity display with ①, ②
- PRE-TARE from the memory unit with ①, ②
- Date/time with ①, ②
- GLP printout with ①, ②
- Data transfer of stock items from PC → Stocktaking scale from Excel list with ②
- Transfer of the stocktake information from stocktaking scale → PC as an Excel list with ②
- Selection of stock location and user with ②

- **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,-**

STANDARD | OPTION

| CAL EXT | MEMORY | RS 232 | GLP INTERN | UNIT | ACCU | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | DAkkS +3 DAYS |

Model	Weighing range	Readout	Reproducibility	Linearity	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
KERN	[Max] g	[d] g	g	g	€	DAkkS KERN	€
SMT 10K-3	10000	1	0,5	± 0,5	950,-	963-128	88,-

! Laptop and decorative items not within the scope of delivery

10

Counting scale KERN CXB

Note: Official verification duty for commercial 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 gradually improves the average value of the piece weight
- **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
- **Soil-resistant construction** with water channels at the edge of the housing and sealing rings over the upper housing inlets
- **PRE-TARE function** for manual subtraction of a known container weight, value can be saved
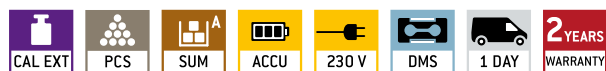
Technical data

- Large backlit LCD displays, digit height 18 mm

- Weiging 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 retrofitted, KERN CXB-A01, **€ 25,-**

STANDARD							OPTION	FACTORY
CAL EXT	PCS	SUM	ACCU	230 V	DMS	1 DAY	2 YEARS WARRANTY	DAkkS +3 DAYS	M +3 DAYS only CXB-NM

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Min. piece weight [Counting]	Counting resolution	Price excl. of VAT ex works	Options			
								Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	g/piece	Points	€	M KERN	€	DAkkS KERN	€
CXB 3K0.2	3	0,2	–	–	0,1	30.000	**220,-**	–	–	963-127	72,-
CXB 6K0.5	6	0,5	–	–	0,2	30.000	**220,-**	–	–	963-128	88,-
CXB 15K1	15	1	–	–	0,5	30.000	**220,-**	–	–	963-128	88,-
CXB 30K2	30	2	–	–	1	30.000	**220,-**	–	–	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.											
CXB 3K1NM	3	1	1	20	0,1	30.000	**235,-**	965-227	55,-	963-127	72,-
CXB 6K2NM	6	2	2	40	0,2	30.000	**235,-**	965-228	55,-	963-128	88,-
CXB 15K5NM	15	5	5	100	0,5	30.000	**235,-**	965-228	55,-	963-128	88,-
CXB 30K10NM	30	10	10	200	1	30.000	**235,-**	965-228	55,-	963-128	88,-

NEW New model

Counting scale KERN CPB

Note: Official verification duty for commercial trade

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

Features

- **Precise counting:** The automatic reference weight optimisation gradually improves the average value of the piece weight
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays** for total weight (verifiable), piece weight, total count
- **Counting results memory:** adds up all individual piece counts, result is shown in total weight and 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

- **High mobility:** thanks to battery operation (optional), compact, flat construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department, ...)

Technical data

- Large backlit LCD displays, digit height 20 mm
- Weighing plate dimensions, stainless steel, WxD 294x225 mm
- Overall dimensions WxDxH 320x350x125 mm
- Net weight approx. 3,3 kg
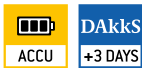- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover**, KERN CFS-A02, **€ 25,-**
- **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 160, 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 160, KERN CFS-A04, **€ 35,-**
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD | | | | | | | OPTION | FACTORY

| CAL EXT | RS 232 | PCS | SUM^A | TOL | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY | ACCU | DAkkS +3 DAYS | M +3 DAYS only CPB-DM |

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Min. piece weight [Counting]	Price excl. of VAT ex works	Option			
							Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	g/piece	€	KERN	€	DAkkS KERN	€
CPB 6K0.1N	6	0,1	–	–	0,1	**225,-**	–	–	963-128	88,-
CPB 15K0.2N	15	0,2	–	–	0,25	**225,-**	–	–	963-128	88,-
CPB 30K0.5N	30	0,5	–	–	0,5	**225,-**	–	–	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 scale switches automatically to the next largest weighing range [Max] and readout [d].										
CPB 6K1DM	3 | 6	1 | 2	1 | 2	20	0,1	**225,-**	965-228	55,-	963-128	88,-
CPB 15K2DM	6 | 15	2 | 5	2 | 5	40	0,25	**225,-**	965-228	55,-	963-128	88,-
CPB 30K5DM	15 | 30	5 | 10	5 | 10	100	0,5	**225,-**	965-228	55,-	963-128	88,-

10

Counting scale KERN CFS

A

C

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

Features

- **Memory for 100 items** with additional text, reference weight and tare weight, e.g. of a container
- **Precise counting:** The automatic reference weight optimisation gradually improves the average value of the piece weight
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Weighing with tolerance range (checkweighing),** ideal for portioning, dispensing, grading, only in weiging & 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

- **Second balance interface** to construct a high-resolution counting system, standard, e.g. with weighing bridges KERN KFP V20 (see page 138)

Technical data

- Large backlit LCD displays, digit height 20 mm
- Weighing plate dimensions
  - ▦ Ø 80 mm
  - ▦ WxD 294x225 mm, see enlarged picture
  - ▦ WxD 370x240 mm
- Overall dimensions WxDxH
  - ▦ 320x350x180 mm (incl. draft shield)
  - ▦ 320x350x125 mm
  - ▦ 370x360x125 mm
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing standard, can be retrofitted, only for models with weighing plate size ▦, KERN CFS-A02, **€ 25,-**
- **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 an extensive accessories range, see page 157 ff.

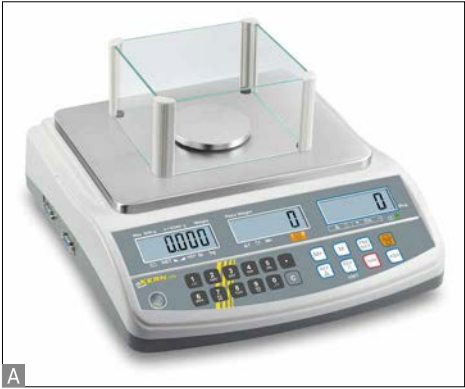| STANDARD										OPTION	
CAL EXT	MEMORY	RS 232	DUAL	PCS	SUM	TOL	230 V	DMS	1 DAY	2 YEARS WARRANTY	ACCU	DAkkS +3 DAYS

Model	Weighing range	Readout	Reproducibility	Min. piece weight	Net weight	Weighing plate	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	g	[Counting] g/piece	approx. kg		€	DAkkS KERN	€
CFS 300-3	0,3	0,001	0,002	0,005	2,5	A	350,-	963-127	72,-
CFS 3K-5	3	0,01	0,02	0,05	3,3	B	290,-	963-127	72,-
CFS 6K0.1	6	0,1	0,1	0,1	3,3	B	270,-	963-128	88,-
CFS 15K0.2	15	0,2	0,2	0,2	3,3	B	270,-	963-128	88,-
CFS 30K0.5	30	0,5	0,5	0,5	3,3	B	270,-	963-128	88,-
CFS 50K-3	50	1	1	1	5,5	C	290,-	963-128	88,-

Counting scale KERN CKE

A

B

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 avoids
- 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 gradually improves the average value of the piece weight
- **Two scales in one:** Switching from counting mode to weighing mode at the touch of a key

Technical data

- Large backlit LCD display
  ▓, ▓ digit height 9 mm
  ▓ digit height 18 mm
- Dimensions of weighing plate (stainless steel*)
  ▓ Ø 81 mm
  ▓ WxD 150x170 mm*
  ▓ WxD 340x240 mm*, see larger picture
- Overall dimensions WxDxH
  ▓, ▓ 167x250x85 mm   ▓ 350x390x120 mm
- Optional battery operation for models with weighing plate size ▓, batteries 6 x 1.5 V Size C not standard, operating time up to 40 h

- Net weight for models with weighing plate size
  ▓ approx. 1 kg
  ▓ approx. 1,8 kg
  ▓ approx. 6,5 kg
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing standard, can be retrofitted, for models with weighing plate size
  ▓ KERN PCB-A02, **€ 25,-**
  ▓ KERN PCB-A05, **€ 25,-**
  ▓ KERN FKB-A02, **€ 25,-**
- **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 ▓ and ▓, operating time up to 25 hours with backlight, charging time approx. 10 h, can be retrofitted, KERN KB-A01N, **€ 50,-**
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD

CAL EXT	RS 232	PCS	UNDER	BATT	230 V	DMS	1 DAY	3 YEARS WARRANTY

OPTION

ACCU	DAkkS +3 DAYS

Model	Weighing range	Readout	Min. piece weight	Counting resolution	Weighing plate	Price excl. of VAT ex works	Option DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	[Counting] g/piece	Points		€	DAkkS KERN	€
CKE 360-3	0,36	0,001	0,001	360.000	A	**370,-**	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	**510,-**	963-128	88,-
CKE 65K0.2	65	0,2	0,2	325.000	C	**510,-**	963-129	105,-
CKE 65K0.5	65	0,5	0,5	130.000	C	**480,-**	963-129	105,-

10

Counting scale KERN IFS

- ▦ 300x240x110 mm   ▦ 400x300x128 mm
- ▦ 500x400x137 mm
- ▦ 650x500x142 mm, see enlarged picture
- Dimensions of display device WxDxH
  260x150x65 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature 0 °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 75,000 points

Features

- **Industrial quality:** because of its stable construction and robust design, it is ideal for continuous use in an industrial environment
- **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.
- **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 piece counts

Technical data

- Large backlit LCD displays, digit height 16,5 mm
- Weighing plate dimensions, stainless steel, WxDxH

Accessories

- **Protective working cover** standard, can be reordered, KERN KFB-A02, **€ 30,-**
- ▦ **Stand** to elevate display device, height of stand approx. 330 mm, KERN IFB-A01, **€ 45,-**
  height of stand approx. 600 mm, for models with weighing plate size ▦ and ▦, 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 157 ff.

STANDARD

| CAL EXT | MEMORY only IFS-M | RS 232 only IFS-M | GLP INTERN | PCS | SUM | PERCENT | TOL | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY |

OPTION

| DAkkS +3 DAYS |

FACTORY

| ACCU | M +3 DAYS only IFS-M |

Model KERN	Weighing range [Max] kg	Readout [d] g	Verifiction value [d] g	Min. piece weight [Counting] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DAkkS Calibr. Certificate	
									M▥ KERN	€	DAkkS KERN	€
Dual-range scale 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	A	370,-			963-128	88,-
IFS 30K0.2DL	12 | 30	0,2|0,5		0,5	60.000	10	B	430,-			963-128	88,-
IFS 60K0.5D	30 | 60	0,5|1		1	60.000	10	B	430,-			963-129	105,-
IFS 60K0.5DL	30 | 60	0,5|1		1	60.000	16	C	510,-			963-129	105,-
IFS 100K-3	75 | 150	1 | 2		2,5	60.000	16	C	560,-			963-129	105,-
IFS 100K-3L	75 | 150	1 | 2		2,5	60.000	24	D	690,-			963-129	105,-
IFS 300K-3	150 | 300	2 | 5		5	60.000	24	D	700,-			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 ⁿᵉʷ	3 | 6	1 | 2	1 | 2	0,1	60.000	6,5	A	410,-	965-228	55,-	963-128	88,-
IFS 10K-3M ⁿᵉʷ	6 | 15	2 | 5	2 | 5	0,2	75.000	6,5	A	410,-	965-228	55,-	963-128	88,-
IFS 10K-3LM ⁿᵉʷ	6 | 15	2 | 5	2 | 5	0,2	75.000	10	B	460,-	965-228	55,-	963-128	88,-
IFS 30K-3M ⁿᵉʷ	15 | 30	5 | 10	5 | 10	0,5	60.000	10	B	460,-	965-228	55,-	963-128	88,-
IFS 60K-2M ⁿᵉʷ	30 | 60	10 | 20	10 | 20	1	60.000	10	B	460,-	965-229	93,-	963-129	105,-
IFS 60K-2LM ⁿᵉʷ	30 | 60	10 | 20	10 | 20	1	60.000	16	C	550,-	965-229	93,-	963-129	105,-
IFS 100K-2M ⁿᵉʷ	60 | 150	20 | 50	20 | 50	2,5	60.000	16	C	550,-	965-229	93,-	963-129	105,-
IFS 100K-2LM ⁿᵉʷ	60 | 150	20 | 50	20 | 50	2,5	60.000	24	D	690,-	965-229	93,-	963-129	105,-
IFS 300K-2M ⁿᵉʷ	150 | 300	50 | 100	50 | 100	5	60.000	24	D	690,-	965-229	93,-	963-129	105,-

ⁿᵉʷ New model

Counting scale KERN CDS

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:
  ▓ 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 gradually improves the average value of the piece weight
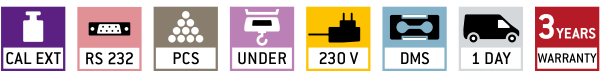
Technical data

- Backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel, WxDxH
  ▓ 228x228x70 mm
  ▓ 308x318x75 mm
  ▓ 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 retrofitted, KERN DE-A12, **€ 30,-**
- **Wall mount** for display device, KERN DS-A02, **€ 30,-**
- **Mount** to fasten the display device to the platform, KERN DE-A11N, **€ 35,-**
- ▓ **Stand** to elevate display device, height of stand approx. 480 mm, KERN DE-A10, **€ 90,-**
- **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,-**
- **Suitable printers** and an extensive accessories range, see page 157 ff.

STANDARD | OPTION

| CAL EXT | RS 232 | PCS | UNDER only B | 230 V | DMS | 1 DAY | 3 YEARS WARRANTY | ACCU | DAkkS +3 DAYS |

Model KERN	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 DAkkS 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	660,-	963-128	88,-
CDS 36K0.2L	36	0,2	0,2	180.000	9,5	0,6	C	650,-	963-128	88,-
CDS 60K0.2	60	0,2	0,2	300.000	9,5	0,6	C	660,-	963-129	105,-
CDS 100K0.5	100	0,5	0,5	200.000	9,5	0,6	C	660,-	963-129	105,-

Counting system KERN CCS

Quantity scale KERN KFP

Reference scale KERN CFS

Counting system to count very small parts in 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:

- The 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 beeing connected to a high-capacity weighing bridge (up to 999.999 pieces)

- **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 gradually improves the average value of the piece weight
- For additional details on the KERN CFS reference scale, see page 92

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 ▨-▨, see page 97
- **Aluminium singlepoint load cell** (1 x 3000 e), dust and spray protection IP65
- For additional details on the KERN KFP quantity scale, see page 138

10

Counting system KERN CCS

Technical data

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

KFP:
- Dimensions of weighing plate, stainless steel, WxDxH
  ▦ 230x230x110 mm
  ▦ 300x240x110 mm
  ▦ 400x300x128 mm
  ▦ 500x400x137 mm
  ▦ 650x500x142 mm
  F 1000x1000x80 mm
  G 1500x1250x80 mm
  H 1500x1500x80 mm
  I 842x1300x90 mm

- Connection cable
  ▦ - ▦ approx. 2,5 m
  F - I approx. 5 m

Accessoires

- **Reference scale** also available separately, details see page 92,
  KERN CFS 300-3, **€ 350,-**
  KERN CFS 3K-5, **€ 290,-**
  KERN CFS 6K0.1, **€ 270,-**
- **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,-**
- ▦ **Signal lamp** for visual support of weighing with tolerance range. Three-colour LED (yellow, green, red). Overall dimensions WxDxH 100x180x300 mm, details see page 160, KERN CFS-A03, **€ 250,-**

Information on other high-capacity bulk scales, 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 scale (d = 0.1g), please refer to the website

- **Y cable** for parallel connection of two terminal devices to the RS-232 interface on the balance, e.g. signal lamp and printer, details see page 160, KERN CFS-A04, **€ 35,-**
- **Suitable printers** and further, extensive accessories from page 157 ff.

STANDARD

CAL EXT	MEMORY	RS 232	DUAL only CFS	PCS	SUM A	TOL	230 V	DMS	1 DAY	3 YEARS WARRANTY

OPTION

ACCU	DAkkS +3 DAYS

Model KERN	Quantity scale KFP	Weighing range [Max] kg	Readout [d] g	Weighing plate	Reference scale CFS	Weighing range [Max] g	Readout [d] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS 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	160,-
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	650,-	962-129-127	160,-
CCS 150K0.01L	KFP 150V20LM	150	50	E	CFS 3K-5	3000	0,01	0,05	850,-	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	820,-	962-129-128	175,-
CCS 300K0.1	KFP 300V20M	300	100	E	CFS 6K0.1	6000	0,1	0,1	840,-	962-129-128	175,-
CCS 300K0.01	KFP 300V20M	300	100	E	CFS 3K-5	3000	0,01	0,05	810,-	962-129-127	160,-
CCS 600K-2 [NEW]	KFP 600V20SM	600	200	F	CFS 3K-5	3000	0,01	0,05	1450,-	962-130-127	237,-
CCS 600K-2L [NEW]	KFP 600V20M	600	200	G	CFS 3K-5	3000	0,01	0,05	1850,-	962-130-127	237,-
CCS 600K-2U [NEW]	KFU 600V20M	600	200	I	CFS 3K-5	3000	0,01	0,05	1250,-	962-130-127	237,-
CCS 1T-1 [NEW]	KFP 1500V20SM	1500	500	F	CFS 6K0.1	6000	0,1	0,1	1390,-	962-130-128	253,-
CCS 1T-1L [NEW]	KFP 1500V20M	1500	500	G	CFS 6K0.1	6000	0,1	0,1	1890,-	962-130-128	253,-
CCS 1T-1U [NEW]	KFU 1500V20M	1500	500	I	CFS 6K0.1	6000	0,1	0,1	1300,-	962-130-128	253,-
CCS 3T-1 [NEW]	KFP 3000V20M	3000	1000	G	CFS 6K0.1	6000	0,1	0,1	1950,-	962-132-128	528,-
CCS 3T-1L [NEW]	KFP 3000V20LM	3000	1000	H	CFS 6K0.1	3000	0,01	0,1	1990,-	962-132-128	528,-

[NEW] New model

10

Stocktaking scale KERN FKA

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

Features

- **Application-orientated scale-PC system** for rapid and reliable recording of stock levels, e.g. as part of stocktaking
- **1** **Using the software included as standard,** an Excel list produced on a PC with stocktaking items can be transferred to the scale. In the warehouse, stocktaking items can then be weighed, counted and stored by the scale, while still in their containers. In doing this, the stored container weight will be subtracted automatically. After the stocktaking, the stock level will then be transferred back to the PC, to then be processed further as an Excel table. In this way the workload and input effort at the scale is kept at a minimum and time efficiency is maximised = cost saving
- **Counting** with fixed and variable reference quantities
- **Precise counting:** The automatic reference weight optimisation gradually improves the average value of the piece weight

- **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, refer. weight etc.
- During stocktaking it is possible to print individual items recorded

Technical data

- Large backlit and touch-sensitive LCD screen 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
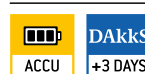- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be retrofitted, KERN FKB-A02, **€ 25,-**
- **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 an extensive accessories range, see page 157 ff.

STANDARD

CAL EXT	MEMORY	RS 232	PCS	UNIT	UNDER	BATT	230 V	DMS	1 DAY	3 YEARS WARRANTY

OPTION

ACCU	DAkkS +3 DAYS

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

NEW New Model   ⬇ Price reduction

Stocktaking counting system KERN FKC

NEW

High-resolution stocktaking counting system with touchscreen to quickly measure the quantity of stock items and information transfer to the PC

Features

- **Counting with a reference balance for high counting accuracy:** the highly accurate KERN counting system FKC can replace a whole range of individual balances, efficiently and at a reasonable price. The counting system consists of an FKA bulk scale (see page 98 for details) and a KB-N reference balance (see page 26 for details) as well as an interface cable.
- **Application-orientated scale-PC system** for rapid and reliable recording of stock levels, e.g. as part stocktaking
- 1 **Item recognition** using the optional bar-code scanner is possible.
- **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 scale 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 balance KB-N

- Large backlit LCD screen with digit height 9 mm
- Weighing plate dimensions Ø/WxD
  KB 120-3N: Ø 81 mm
  KB 1200-2N: 130x130 mm
- Dimensions housing KB-N:
  WxDxH 167x250x85 mm
- Permissible ambient temperature
  10 °C / 40 °C

Technical data Quantity scale FKA

- Large backlit and touch-sensitive LCD screen with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Dimensions housing FKA:
  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 Reference balance KB-N

- **Protective working cover** over keyboard and housing, standard, can be retrofitted, **€ 25,-**
  KB 120-3N: PCB-A02
  KB 1200-2N: PCB-A04
- **Rechargeable battery pack external,** operating time up to 15 h without backlight, charging time approx. 10 h,
  KERN KB-A01N, **€ 50,-**

Accessories Quantity scale FKA

- see page 98

10

STANDARD

CAL EXT	MEMORY	RS 232	GLP PRINTER	PCS	RECIPE KB-N only	PERCENT KB-N only	UNIT	UNDER	BATT FKA only	230 V	DMS	2 DAYS	3 YEARS WARRANTY

OPTION

ACCU KB-N only	DAkkS +3 DAYS

Model KERN	Quantity scale FKA	Weighing range [Max] kg	Readout [d] g	Weighing plate mm	Reference balance KB-N	Weighing range [Max] g	Readout [d] g	Min. piece weight [Counting] g/piece	Price excl. of VAT ex works €	Options DAkkS Calibr. Certificate DAkkS 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,-

Tradition and innovation for more than 170 years

An independent family business, KERN since already 6 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**

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

▸ **2013**

Starting construction of Ziegelei 2.0 with computer-controlled high-bay warehouse

▸ **2014**

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

👍 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 6 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

Order hotline
+49 [0] 7433 9933-0

Service hotline
+49 [0] 7433 9933-199

Calibration hotline
+49 [0] 7433 9933-196

Online-Shop
www.kern-sohn.com

E-mail order
info@kern-sohn.com

Fax Order
+49 [0] 7433 9933-146

Our team of consultants will assist you
from Monday to Friday from 8:00 am to 6:00 pm

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

APPROVAL FOR MANUFACTURE **OF MEDICAL PRODUCTS** EN 13485 and 93/42/EEC

AUTHORISATION FOR **INITIAL VERIFICATION** BY THE **MANUFACTURER** 2009/23/EC

German Excellence Group
Member