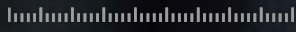# KERN®

COUNTING SCALES/
COUNTING SYSTEMS/
SPECIAL STOCKTAKING SCALES

2017

PROFESSIONAL
MEASURING

KERN Pictograms

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

Adjusting program CAL:
For quick setting up of the balance's accuracy. External adjusting weight required.

Memory:
Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.

Alibi memory:
Electronic archiving of weighing results, complying with the 2009/23/EC standard. For details see page 199

Data interface RS-232:
To connect the balance to a printer, PC or network.

RS-485 data interface:
To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.

USB data interface:
To connect the balance to a printer, PC or other peripherals.

Bluetooth* data interface:
To transfer data from the balance to a printer, PC or other peripherals.

WLAN data interface:
To transfer data from the balance to a printer, PC or other peripherals.

Control outputs (optocoupler, digital I/O):
To connect relays, signal lamps, valves, etc.

Interface for second balance:
For direct connection of a second balance.

Network interface:
For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter. See page 166

Wireless data transfer:
between the weighing unit and the evaluation unit using an integrated radio module.

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

GLP/ISO log:
With weight, date and time. Only with KERN printers, see "Accessories", see page 163.

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

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

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

Recipe level C:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition.

Totalising level A:
The weights of similar items can be added together and the total can be printed out.

Percentage determination:
Determining the deviation in % from the target value (100 %).

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 with tolerance range:
Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning

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

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram. For details see page 56.

ATEX explosion protection:
Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.

Stainless steel:
The balance is protected against corrosion.

Suspended weighing:
Load support with hook on the underside of the balance.

Battery operation:
Ready for battery operation. The battery type is specified for each device.

Rechargeable battery pack:
Rechargeable set.

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

Mains adapter:
230V/50Hz in standard version for EU. On request GB, USA or AUS version available.

Power supply:
Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.

Weighing principle: Strain gauges
Electrical resistor on an elastic deforming body.

Weighing principle: Tuning fork
A resonating body is electromagnetically excited, causing it to oscillate.

Weighing principle: Electromagnetic force compensation
Coil inside a permanent magnet. For the most accurate weighings.

Weighing principle: Single cell technology
Advanced version of the force compensation principle with the highest level of precision.

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

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

Package shipment:
The time required for internal shipping preparations is shown in days in the pictogram.

Pallet shipment:
The time required for internal shipping preparations is shown in days in the pictogram.

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 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.

DAkkS calibration service brochure

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

Your advantages

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 2014/31/EU
- 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

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

Online Shop
www.kern-sohn.com

E-mail order
info@kern-sohn.com

Fax order
+49 [0] 7433 9933-146

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

Interesting facts about density determination

Smallest part weight when counting
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. To make it easier for you to select the right model, we give the smallest part weight when counting under laboratory conditions and normal conditions, see the website.

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

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

5	pieces	>>	often sufficient
10	pieces	>>	common practise
20–100	pieces	>>	for large deviations among piece weights

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

Which counting scale for which application?

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

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

Special tip for counting large quantities: Counting systems
The weighing 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 199–201*

HIGH-LIGHT

KERN FKC

Your product specialist's recommendation:

👍 **Intelligent, rapid counting system with inventory system**

👍 **Enormous item memory**

👍 **Intuitive touchscreen operation**

Tanja Jetter
Product specialist Counting scales

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

Read-out [d]	Weighing range [Max]	Counting resolution Points	Model KERN	Price excl. of VAT ex works €	Page	DAYS	M	CAL EXT	MEMORY	RS 232	DUAL	ACCU
0,0001 g	6 | 15 kg	150.000.000	CCT 10K-7	3100,-	82	23		●	●	●		
0,001 g	0,3 kg	60.000	CFS 300-3	350,-	73	1		●	●	●	●	○
0,001 g	0,36 kg	360.000	CKE 360-3	310,-	74	1		●		●		○
0,001 g	30 kg	30.000	CXB 30K2	230,-	71	4		●				●
0,001 g	6 kg	1.200.000	CCS 6K-6	670,-	79	4		●	●	●	●	○
0,001 g	6 kg	6.000.000	CCT 6K-6	4100,-	82	23		●	●	●		
0,001 g	6 | 15 kg	15.000.000	CCT 10K-6	2700,-	82	23		●	●	●		
0,001 g	15 kg	3.000.000	CCS 10K-6	710,-	79	4		●	●	●	●	○
0,001 g	30 | 60 kg	60.000.000	CCT 60K-6	2800,-	82	23		●	●	●		
0,001 g	36 kg	36.000.000	FKC 30K-6	1290,-	78	1		●	●	●		○
0,001 g	36 kg	36.000.000	FKC 60K-6	1290,-	78	1		●	●	●		○
0,01 g	2 kg	200.000	CKE 2000-2	350,-	74	1		●		●		○
0,01 g	3 kg	60.000	CFS 3K-5	310,-	73	1		●	●	●	●	○
0,01 g	3,6 kg	360.000	CKE 3600-2	370,-	74	1		●		●		○
0,01 g	15 | 30 kg	3.000.000	CCT 30K-5	2800,-	82	23		●	●	●		
0,01 g	30 kg	600.000	CCS 30K0.01.	580,-	79	4		●	●	●	●	○
0,01 g	30 | 60 kg	6.000.000	CCT 60K-5	2800,-	82	23		●	●	●		
0,01 g	30 | 60 kg	6.000.000	CCT 60K-5L	3000,-	82	23		●	●	●		
0,01 g	36 kg	3.600.000	FKC 30K-5	1280,-	78	1		●	●	●		○
0,01 g	60 kg	1.200.000	CCS 60K0.01.	580,-	79	4		●	●	●	●	○
0,01 g	60 kg	1.200.000	CCS 60K0.01L.	660,-	79	4		●	●	●	●	○
0,01 g	60 | 150 kg	15.000.000	CCT 100K-5	2900,-	82	23		●	●	●		
0,01 g	60 | 150 kg	15.000.000	CCT 100K-5L	2900,-	82	23		●	●	●		
0,01 g	65 kg	65.000.000	FKC 60K-5	1280,-	78	1		●	●	●		○
0,01 g	150 kg	3.000.000	CCS 150K0.01	690,-	79	4		●	●	●	●	○
0,01 g	150 kg	3.000.000	CCS 150K0.01L	900,-	79	4		●	●	●	●	○
0,01 g	150 | 300 kg	30.000.000	CCT 300K-5	3000,-	82	23		●	●	●		
0,01 g	300 kg	6.000.000	CCS 300K0.01	900,-	79	4		●	●	●	●	○
0,01 g	600 kg	12.000.000	CCS 600K-2U	1550,-	79	5		●	●	●	●	○
0,01 g	600 kg	12.000.000	CCS 600K-2	1600,-	79	5		●	●	●	●	○
0,01 g	600 kg	12.000.000	CCS 600K-2L	1990,-	79	5		●	●	●	●	○
0,02 g	4 kg	200.000	CDS 4K0.02	560,-	76	1		●		●		○
0,02 g	6 kg	300.000	CKE 6K0.02	520,-	74	1		●		●		○
0,05 g	8 kg	160.000	CKE 8K0.05	480,-	74	1		●		●		○
0,05 g	15 kg	300.000	CDS 15K0.05	490,-	76	1		●		●		○
0,05 g	16 kg	320.000	CKE 16K0.05	590,-	74	1		●		●		○
0,1 g	6 kg	60.000	CPB 6K0.1N	235,-	72	1		●		●		○
0,1 g	6 kg	60.000	CFS 6K0.1	270,-	73	1		●	●	●	●	○
0,1 g	15 kg	150.000	CCP 10K-4	2900,-	81	1		●	●	●		
0,1 g	16 kg	160.000	CKE 16K0.1	480,-	74	1		●		●		○
0,1 g	16 kg	160.000	CDS 16K0.1	460,-	76	1		●		●		○
0,1 g	30 kg	300.000	CDS 30K0.1	560,-	76	1		●		●		○
0,1 g	30 kg	300.000	CCS 30K0.1.	570,-	79	4		●	●	●	●	○
0,1 g	30 kg	300.000	CDS 30K0.1L	710,-	76	1		●		●		○
0,1 g	30 kg	300.000	CCP 30K-4	3000,-	81	1		●	●	●		
0,1 g	36 kg	360.000	CKE 36K0.1	540,-	74	1		●		●		○
0,1 g	36 kg	360.000	FKA 30K-4	950,-	77	1		●		●		○
0,1 g	60 kg	600.000	CCS 60K0.1.	550,-	79	4		●	●	●	●	○
0,1 g	60 kg	600.000	CCS 60K0.1L.	610,-	79	4		●	●	●	●	○
0,1 g	60 kg	600.000	CCP 60K-4	2900,-	81	2		●	●	●		
0,1 g	60 kg	600.000	CCP 60K-4L	3000,-	81	2		●	●	●		
0,1 g	150 kg	1.500.000	CCS 150K0.1.	610,-	79	1		●	●	●	●	○
0,1 g	150 kg	1.500.000	CCS 150K0.1L	860,-	79	4		●	●	●	●	○
0,1 g	300 kg	3.000.000	CCS 300K0.1	860,-	79	4		●	●	●	●	○
0,1 g	300 kg	3.000.000	CCP 300K-4	3300,-	81	1		●	●	●		
0,1 g	600 kg	6.000.000	CCP 600K-4	4200,-	81	2		●	●	●		
0,1 g	1500 kg	15.000.000	CCS 1T-1U	1480,-	79	5		●	●	●	●	○
0,1 g	1500 kg	15.000.000	CCS 1T-1	1550,-	79	5		●	●	●	●	○
0,1 g	1500 kg	15.000.000	CCS 1T-1L	1930,-	79	5		●	●	●	●	○
0,1 g	3000 kg	30.000.000	CCS 3T-1	1950,-	79	5		●	●	●	●	○
0,1 g	3000 kg	30.000.000	CCS 3T-1L	2150,-	79	5		●	●	●	●	○
0,1 g	3000 kg	3.000.000	CCP 3T-7	4200,-	81	2		●	●	●		
0,1 g	3000 kg	1.500.000	CCP 3T-7L	4200,-	81	2		●	●	●		
0,1 | 0,2 g	6 | 15 kg	75.000	IFS 10K-4	405,-	75	1		●		●		○
0,2 g	3 kg	30.000	CXB 3K0.2	230,-	71	1		●				●
0,2 g	15 kg	60.000	CPB 15K0.2N	235,-	72	1		●		●		○
0,2 g	15 kg	75.000	CFS 15K0.2	270,-	73	1		●	●	●	●	●
0,2 g	36 kg	180.000	CDS 36K0.2L	710,-	76	1		●		●		○
0,2 g	60 kg	300.000	CDS 60K0.2	710,-	76	1		●		●		○
0,2 g	65 kg	325.000	CKE 65K0.2	540,-	74	1		●		●		○
0,2 g	65 kg	325.000	FKA 60K-4	950,-	77	1		●	●	●		○
0,2 | 0,5 g	12 | 30 kg	60.000	IFS 30K0.2DL	450,-	75	1		●	●	●		○

For an explanation on the pictos, see the front flap

● = standard   ○ = option

08

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

Read-out [d]	Weighing range [Max]	Counting resolution Points	Model KERN	Price excl. of VAT ex works €	Page	DAYS	M	CAL EXT	MEMORY	RS 232	DUAL	ACCU
0,5 g	6 kg	30.000	CXB 6K0.5	230,-	71	1		●				●
0,5 g	30 kg	60.000	CPB 30K0.5N	235,-	72	1		●		●		○
0,5 g	30 kg	60.000	CFS 30K0.5	270,-	73	1		●	●	●	●	○
0,5 g	65 kg	130.000	CKE 65K0.5	500,-	74	1		●		●		○
0,5 | 1 g	30 | 60 kg	60.000	IFS 60K0.5D	450,-	75	1		●	●	●		○
0,5 | 1 g	30 | 60 kg	60.000	IFS 60K0.5DL	550,-	75	1		●	●	●		○
1 g	3 kg	30.000	CXB 3K1NM	245,-	71	1	○	●				●
1 g	15 kg	30.000	CXB 15K1	230,-	71	1		●				●
1 g	50 kg	50.000	CFS 50K-3	310,-	73	1		●	●	●	●	○
1 | 2 g	3 | 6 kg	60.000	CPB 6K1DM	235,-	72	1	○	●		●		○
1 | 2 g	3 | 6 kg	60.000	IFS 6K-3M	410,-	75	1	○	●	●	●		○
1 | 2 g	75 | 150 kg	60.000	IFS 100K-3	625,-	75	1		●	●	●		○
1 | 2 g	75 | 150 kg	60.000	IFS 100K-3L	785,-	75	1		●	●	●		○
1 | 2 g	600 kg	6.000.000	CCP 600K-3	3800,-	81	25		●	●	●		
2 g	6 kg	30.000	CXB 6K2NM	245,-	71	1	○	●				●
2 | 5 g	6 | 15 kg	60.000	CPB 15K2DM	235,-	72	1	○	●		●		○
2 | 5 g	6 | 15 kg	75.000	IFS 10K-3M	410,-	75	1	○	●	●	●		○
2 | 5 g	6 | 15 kg	75.000	IFS 10K-3LM	460,-	75	1	○	●	●	●		○
2 | 5 g	150 kg	1.500.000	CCP 100K-3	2600,-	81	1		●	●	●		
2 | 5 g	150 | 300 kg	60.000	IFS 300K-3	790,-	75	1		●	●	●		○
5 g	15 kg	30.000	CXB 15K5NM	245,-	71	1	○	●				●
5 | 10 g	15 | 30 kg	60.000	CPB 30K5DM	235,-	72	1	○	●		●		○
5 | 10 g	15 | 30 kg	60.000	IFS 30K-3M	460,-	75	1	○	●	●	●		○
10 g	30 kg	30.000	CXB 30K10NM	245,-	71	1	○	●				●
10 | 20 g	30 | 60 kg	60.000	IFS 60K-2M	460,-	75	1	○	●	●	●		○
10 | 20 g	30 | 60 kg	60.000	IFS 60K-2LM	550,-	75	1	○	●	●	●		○
20 | 50 g	60 | 150 kg	60.000	IFS 100K-2M	550,-	75	1	○	●	●	●		○
20 | 50 g	60 | 150 kg	60.000	IFS 100K-2LM	715,-	75	1	○	●	●	●		○
50 | 100 g	150 | 300 kg	60.000	IFS 300K-2M	720,-	75	4	○	●	●	●		○

For an explanation on the pictos, see the front flap

● = standard   ○ = option

08

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 of reference weight gradually improves the average piece weight value
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays** for weight display (verifiable), reference weight, total weight
- **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
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key

Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions weighing surface, stainless steel, W×D 300×225 mm
- Dimensions housing W×D×H 300×330×110 mm

- Rechargeable battery pack internal, operating time up to 200 h without backlight, charging time approx. 8 h
- Net weight approx. 4,0 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Protective working cover**, can be re-ordered, scope of delivery: 5 items, KERN CXB-A01S05, **€ 36,-**
- **Rechargeable battery pack internal**, operating time up to 200 h without backlight, charging time approx. 8 h, KERN GAB-A04, **€ 40,-**

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

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

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 of reference weight gradually improves the average piece weight value
- **Programmable using numerical key pad:**
  - required reference quantity
  - known reference weight
- **Three displays** for weight display (verifiable), reference weight, total weight
- **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. When the target value is reached, a signal will sound
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels

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

Technical data

- Large backlit LCD displays, digit height 20 mm
- Dimensions weighing surface, stainless steel, W×D 295×225 mm
- Overall dimensions W×D×H 315×350×100 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C/40 °C

Accessories

- **Protective working cover**, can be re-ordered, 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, KERN GAB-A04, **€ 40,-**
- 1 **Signal lamp** for visual support of weighing with tolerance range, 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 or barcode reader and printer, KERN CFS-A04, **€ 35,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD								OPTION		FACTORY
CAL EXT	RS 232	PCS	SUM	TOL	MULTI	DMS	1 DAY	2 YEARS WARRANTY	ACCU	DAkkS +3 DAYS	M +3 DAYS CPB-DM

Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimal load [Min]	Smallest part 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	€	DKD KERN	€
CPB 6K0.1N	6	0,1	-	-	0,1	60.000	**235,-**	-	-	963-128	88,-
CPB 15K0.2N	15	0,2	-	-	0,25	60.000	**235,-**	-	-	963-128	88,-
CPB 30K0.5N	30	0,5	-	-	0,5	60.000	**235,-**	-	-	963-128	88,-
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d]											
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
CPB 6K1DM	3 | 6	1 | 2	1 | 2	20	0,1	60.000	**235,-**	965-228	55,-	963-128	88,-
CPB 15K2DM	6 | 15	2 | 5	2 | 5	40	0,25	60.000	**235,-**	965-228	55,-	963-128	88,-
CPB 30K5DM	15 | 30	5 | 10	5 | 10	100	0,5	60.000	**235,-**	965-228	55,-	963-128	88,-

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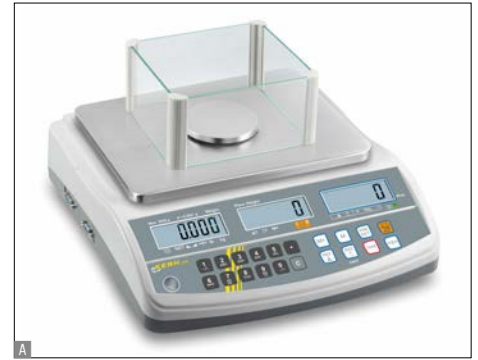
Professional, high-resolution counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 points

Features

- **Memory (PLU)** for 99 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 (check-weighing):** a visual and audible signal helps with portioning, dispensing or grading
- **Fill-to-target function:** Programmable target quantity or target weight. A signal will be displayed when the target value is reached
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels

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

Technical data

- Large backlit LCD displays, digit height 20 mm
- Weighing plate dimensions W×D×H
  A Ø 80 mm
  B W×D 300×225 mm, see larger picture
  C W×D 320×350 mm
- Overall dimensions W×D×H
  A 320×350×180 mm (incl. draught shield)
  B 320×350×125 mm
  C 320×350×125 mm
- Permissible ambient temperature 0 °C/40 °C

Accessories

- **Protective working cover**, standard for models with weighing plate size A, 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, KERN GAB-A04, **€ 40,-**
- **Signal lamp** for visual support of weighing with tolerance range, 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 or barcode reader and printer, KERN CFS-A04, **€ 35,-**
- **WLAN interface** for wireless connection of the balance to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN CFS-A05, **€ 120,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD   OPTION

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

Model	Weighing range	Readout	Smallest part weight [counting]	Counting resolution	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Options	
	[Max]	[d]						DAkkS Calibr. Certificate	
KERN	kg	g	g/piece	Points	kg		€	DKD KERN	€
CFS 300-3	0,3	0,001	0,005	60.000	2,6	A	**350,-**	963-127	72,-
CFS 3K-5	3	0,01	0,05	60.000	3,4	B	**310,-**	963-127	72,-
CFS 6K0.1	6	0,1	0,1	60.000	3,4	B	**270,-**	963-128	88,-
CFS 15K0.2	15	0,2	0,2	75.000	3,4	B	**270,-**	963-128	88,-
CFS 30K0.5	30	0,5	0,5	60.000	3,4	B	**270,-**	963-128	88,-
CFS 50K-3	50	1	1	50.000	4,4	C	**310,-**	963-128	88,-

Counting scale KERN CKE

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

Features

- **Self-explanatory graphic control panel**, the workings steps can be understood immediately, even without operating instructions
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  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 balances in one:** Changes 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
- Dimensions weighing surface
  A ⌀ 81 mm, plastic
  B W×D 150×170 mm, stainless steel
  C W×D 340×240 mm, stainless steel
- Overall dimensions W×D×H
  A, B 167×250×85 mm
  C 350×390×120 mm

- Optional battery operation,6×1.5 V Size C not included, operating time up to 40 h, for models with weighing plate size C
- Permissible ambient temperature 10 °C/40 °C

Accessories

- **Protective working cover**, 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, **€ 40,-**
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

| CAL EXT | RS 232 | PCS | UNDER | BATT | MULTI | DMS | 1 DAY | 3 YEARS WARRANTY |

OPTION

| ACCU | DAkkS +3 DAYS |

Model	Weighing range	Readout	Smallest part weight [counting]	Counting resolution	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Options	
								DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	g/piece	Points	kg		**€**	DKD KERN	€
CKE 360-3	0,36	0,001	0,001	360.000	1	A	**310,-**	963-127	72,-
CKE 2000-2	2	0,01	0,01	200.000	1,8	B	**350,-**	963-127	72,-
CKE 3600-2	3,6	0,01	0,01	360.000	1,8	B	**370,-**	963-127	72,-
CKE 6K0.02	6	0,02	0,02	300.000	7	C	**520,-**	963-128	88,-
CKE 8K0.05	8	0,05	0,05	160.000	7	C	**480,-**	963-128	88,-
CKE 16K0.05	16	0,05	0,05	320.000	7	C	**590,-**	963-128	88,-
CKE 16K0.1	16	0,1	0,1	160.000	7	C	**480,-**	963-128	88,-
CKE 36K0.1	36	0,1	0,1	360.000	7	C	**540,-**	963-128	88,-
CKE 65K0.2	65	0,2	0,2	325.000	7	C	**540,-**	963-129	105,-
CKE 65K0.5	65	0,5	0,5	130.000	7	C	**500,-**	963-129	105,-

Counting scale KERN IFS

Note: Official verification duty for commercial trade

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

Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **Ergonomic display device** with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- **100 item memories** for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.

- **Precise counting:** The manual reference weight optimisation gradually improves the average value of the piece weight
- **Totalising** of pieces when counting

Technical data

- Large backlit LCD display, digit height 16,5 mm
- Dimensions of display device W×D×H 260×150×65 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,-** Column height approx. 600 mm, for models with weighing plate size Ⓑ, Ⓒ, KERN IFB-A02, **€ 60,-**
- **Suitable printers** see *Accessories*

STANDARD

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

OPTION

DAkkS +3 DAYS

FACTORY

ACCU	M +3 DAYS IFS-M

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Smallest part weight [counting] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. of VAT ex works €	Options Verification M Ⅲ KERN	€	DAkkS Calibr. Certificate 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	300×240×110	**405,-**	-	-	963-128	88,-
IFS 30K0.2DL	12 | 30	0,2 | 0,5	-	0,5	60.000	11	400×300×120	**450,-**	-	-	963-128	88,-
IFS 60K0.5D	30 | 60	0,5 | 1	-	1	60.000	10	400×300×112	**450,-**	-	-	963-129	105,-
IFS 60K0.5DL	30 | 60	0,5 | 1	-	1	60.000	12	400×500×120	**550,-**	-	-	963-129	105,-
IFS 100K-3	75 | 150	1 | 2	-	2,5	60.000	12	500×400×137	**630,-**	-	-	963-129	105,-
IFS 100K-3L	75 | 150	1 | 2	-	2,5	60.000	20	650×500×142	**790,-**	-	-	963-129	105,-
IFS 300K-3	150 | 300	2 | 5	-	5	60.000	22	650×500×135	**790,-**	-	-	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	300×240×105	**410,-**	965-228	55,-	963-128	88,-
IFS 10K-3M	6 | 15	2 | 5	2 | 5	0,2	75.000	6	300×240×110	**410,-**	965-228	55,-	963-128	88,-
IFS 10K-3LM	6 | 15	2 | 5	2 | 5	0,2	75.000	10	400×300×115	**460,-**	965-228	55,-	963-128	88,-
IFS 30K-3M	15 | 30	5 | 10	5 | 10	0,5	60.000	10	400×300×120	**460,-**	965-228	55,-	963-128	88,-
IFS 60K-2M	30 | 60	10 | 20	10 | 20	1	60.000	11	400×300×115	**460,-**	965-229	93,-	963-129	105,-
IFS 60K-2LM	30 | 60	10 | 20	10 | 20	1	60.000	13	500×400×250	**550,-**	965-229	93,-	963-129	105,-
IFS 100K-2M	60 | 150	20 | 50	20 | 50	2,5	60.000	12	500×400×137	**550,-**	965-229	93,-	963-129	105,-
IFS 100K-2LM	60 | 150	20 | 50	20 | 50	2,5	60.000	22	650×500×140	**720,-**	965-229	93,-	963-129	105,-
IFS 300K-2M	150 | 300	50 | 100	50 | 100	5	60.000	22	650×500×142	**720,-**	965-229	93,-	963-129	105,-

08

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 workings steps can be understood immediately, even without operating instructions
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  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
- Dimensions weighing surface, stainless steel
  A W×D 228×228 mm
  B W×D 308×318 mm
  C W×D 450×350 mm
- Dimensions of display device W×D×H 225×115×60 mm
- Permissible ambient temperature 10 °C/40 °C

Accessories

- **Protective working cover** over the display device, 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, can be retrofitted, KERN DE-A11N, **€ 35,-**

- 5 **Stand** to elevate display device, height of stand approx. 480 mm, can be retrofitted, KERN DE-A10, **€ 95,-**
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**
- **Set for underfloor weighing**, consists of platform, bow, hook, only for models with weighing plate B, KERN DS-A01, **€ 200,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD
CAL EXT | RS 232 | PCS | MULTI | DMS | 1 DAY | 3 YEARS WARRANTY

OPTION
UNDER B | ACCU | DAkkS +3 DAYS
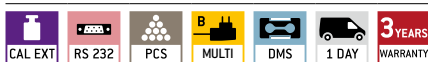
Model KERN	Weighing range [Max] kg	Readout [d] g	Smallest part weight [counting] g/piece	Counting resolution Points	Net weight approx. kg	Cable length approx. m	Weighing plate	Price excl. of VAT ex works €	Options DAkkS Calibr. Certificate	
									DKD KERN	€
CDS 4K0.02	4	0,02	0,02	200.000	6	1	A	**560,-**	963-127	72,-
CDS 15K0.05	15	0,05	0,05	300.000	8	2	B	**490,-**	963-128	88,-
CDS 16K0.1	16	0,1	0,1	160.000	8	2	B	**460,-**	963-128	88,-
CDS 30K0.1	30	0,1	0,1	300.000	8	2	B	**560,-**	963-128	88,-
CDS 30K0.1L	30	0,1	0,1	300.000	10	0,6	C	**710,-**	963-128	88,-
CDS 36K0.2L	36	0,2	0,2	180.000	10	0,6	C	**710,-**	963-128	88,-
CDS 60K0.2	60	0,2	0,2	300.000	10	0,6	C	**710,-**	963-129	105,-

Stocktake scale KERN FKA

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
- ▇1▇ **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 reference weight, reference quantity, container weight (PRE-TARE) etc.
- During stocktaking it is possible to **print individual items** recorded
- ▇2▇ Barcode scanner can be connected for rapid item recognition, with no confusion

Technical data

- Large backlit LCD touch display, digit height 18 mm, screen diagonal 5,8" (127×74mm)
- Dimensions weighing surface, stainless steel, W×D 340×240 mm
- Dimensions housing W×D×H 350×390×120 mm
- Optional battery operation, 6×1.5 V Size C not included, operating time up to 15 h
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C/40 °C

Accessories

- **Protective working cover**, standard, can be re-ordered, scope of delivery: 5 items, KERN FKB-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Barcode scanner**, table-top version, dimensions W×D×H 230×150×135 mm, KERN SMT-A02, **€ 685,-**
- **Barcode scanner**, hand-held version, dimensions W×D×H 235×210×115 mm, KERN SMT-A03, **€ 445,-**
- **Radio barcode scanner**, hand-held version, dimensions W×D×H 225×220×110 mm, KERN SMT-A04, **€ 495,-**
- **RS-232/USB adapter**, to connect peripheral devices with USB connection, KERN AFH 12, **€ 85,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN FKA-A01, **€ 46,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD | OPTION

CAL EXT · MEMORY · RS 232 · PCS · UNIT · UNDER · BATT · MULTI · DMS · 1 DAY · 3 YEARS WARRANTY | ACCU · DAkkS +3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Smallest part weight [counting] g/piece	Counting resolution Points	Price excl. of VAT ex works €	Options DAkkS Calibr. Certificate DKD KERN 963-128	€
KERN							
FKA 30K-4	36	0,1	0,1	360.000	**950,-**	963-128	88,-
FKA 60K-4	65	0,2	0,2	325.000	**950,-**	963-129	105,-

Counting system with stocktaking function KERN FKC

SCAN ME!

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

```
Mustermann
Kohlstr. 7
72336 Balingen

Bediener:      Maier
Datum:         28.11.2014
Uhrzeit:       13:06:02

Artikel:       Cu-Scheibe
Brutto:        650,0g
Tara:          0,0g
Netto:         600,0g

g/Pcs:         2,0g
Stueckzahl:    300pcs
```
1

Quantity scale KERN FKA

Reference scale KERN KB
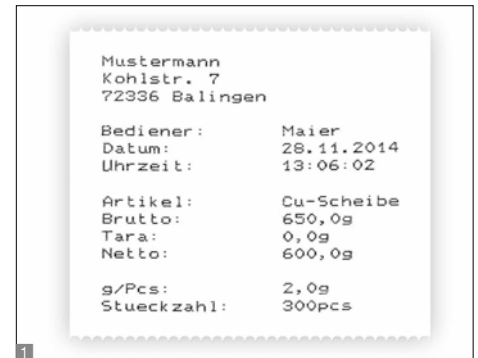
High-resolution counting system with counting resolution up to 5 Mio – with stocktaking and piece counting function out of stored data from/to the PC

08

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 a bulk scale FKC and a reference balance KB-N 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
- 1 **Individual print formats:** Printouts can be individually adjusted depending on operating mode, application or your own requirements, directly at the balance or the PC. In this way the data related to these processes is documented accurately, efficiently and clearly
- **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 KERN KB
- Backlit LCD display, digit height 9 mm
- Dimensions weighing surface
  KB 120-3N: ∅ 81 mm
  KB 1200-2N: W×D 130×130 mm
- Dimensions housing W×D×H
  167×250×85 mm
- Permissible ambient temperature
  10 °C/40 °C

Quantity scale KERN FKA
- Backlit LCD touch display, digit height 18 mm
- Dimensions weighing surface
  W×D 340×240 mm
- Dimensions housing W×D×H
  350×390×120 mm
- Optional battery operation, 6×1.5 V Size C not included, operating time up to 15 h
- Permissible ambient temperature
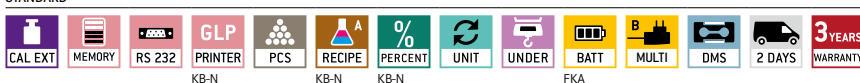 10 °C/40 °C

Accessories

Reference scale KERN KB-N
- **Protective working cover**, standard, can be re-ordered, scope of delivery: 5 items, KB 120-3N: KERN PCB-A02S05, **€ 30,-** KB 1200-2N: KERN PCB-A04S05, **€ 30,-**
- **Rechargeable battery pack internal**, operating time up to 30 h, without backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**

Quantity scale KERN FKA
- **Barcode scanner**, table-top version, dimensions W×D×H 230×150×135 mm, KERN SMT-A02, **€ 685,-**
- **Barcode scanner**, hand-held version, dimensions W×D×H 235×210×115 mm, KERN SMT-A03, **€ 445,-**
- **Radio barcode scanner**, hand-held version, dimensions W×D×H 225×220×110 mm, KERN SMT-A04, **€ 495,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD | OPTION

| CAL EXT | MEMORY | RS 232 | GLP PRINTER KB-N | PCS | RECIPE KB-N | PERCENT KB-N | UNIT | UNDER | BATT FKA | MULTI | DMS | 2 DAYS | 3 YEARS WARRANTY | ACCU KB-N | DAkkS +3 DAYS |

Model	Quantity scale	Weighing range [Max]	Readout [d]	Reference scale	Weighing range [Max]	Readout [d]	Price excl. of VAT ex works	Options DAkkS Calibr. Certificate	
KERN	FKA	kg	g	KB	g	g	€	DKD KERN	€
FKC 30K-6	FKA 30K-4	36	0,1	KB 120-3N	120	0,001	**1290,-**	962-128-127	145,-
FKC 30K-5	FKA 30K-4	36	0,1	KB 1200-2N	1200	0,01	**1280,-**	962-128-127	145,-
FKC 60K-6	FKA 60K-4	65	0,2	KB 120-3N	120	0,001	**1290,-**	962-129-127	160,-
FKC 60K-5	FKA 60K-4	65	0,2	KB 1200-2N	1200	0,01	**1280,-**	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

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

Reference scale KERN CFS

· This professional counting scale, which can also be used as a stand-alone scale, meets the highest demands for accuracy, weighing 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, reference weight and tare weight, e.g. of a container

· **Fill-to-target function:** Programmable target quantity or target weight. A 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

Quantity scale KERN KFP V20 IP65

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

· weighing plate stainless steel, painted steel base, for models with weighing plate size Ⓐ – Ⓔ

· **Aluminium singlepoint load cell** (1×3000e), protection against dust and water splashes IP65

Technical data

CFS

· Overall dimensions W×D×H 320×350×180 mm

· Dimensions weighing surface, stainless steel
  ① CFS 300-3: Ø 80 mm
  CFS 3K-5, CFS 6K0.1: W×D 300×225 mm

· Net weight approx. 2,6 kg

KFP/KFU

· Weighing plate dimensions W×D×H, stainless steel
  Ⓐ 230×230×110 mm
  Ⓑ 300×240×110 mm
  Ⓒ 400×300×128 mm
  Ⓓ 500×400×137 mm
  Ⓔ 500×650×135 mm
  Ⓕ 1000×1000×80 mm
  Ⓖ 1500×1250×80 mm
  Ⓗ 1500×1500×80 mm
  Ⓘ 842×1300×90 mm

· Connection cable approx.
  Ⓐ – Ⓔ 2 m
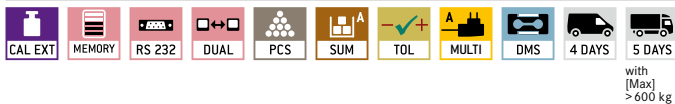 Ⓕ – Ⓘ 5 m

Counting system KERN CCS

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 60 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- ② **Signal lamp** for visual support of weighing with tolerance range, 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 or barcode reader and printer, KERN CFS-A04, **€ 35,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

! Information on other high-capacity bulk balances, such as, for example, pallet scales, drive-through scales or floor scales is available on request, for information on other counting systems with the KERN CFS reference balance (d = 0.1 g), please refer to the website

08

STANDARD

| CAL EXT | MEMORY | RS 232 | DUAL | PCS | SUM | TOL | MULTI | DMS | 4 DAYS | 5 DAYS with [Max] > 600 kg |

OPTION

| ACCU | DAkkS +3 DAYS |

Model	Quantity scale	Weighing range [Max] kg	Readout [d] g	Weighing plate	Reference scale	Weighing range [Max] kg	Readout [d] g	Price excl. of VAT ex works €	Options DAkkS Calibr. Certificate	
KERN	KFP				CFS				DKD KERN	€
CCS 6K-6	KFP 6V20M	6	2	A	CFS 300-3	0,3	0,001	**670,-**	962-128-127	145,-
CCS 10K-6	KFP 15V20M	15	0,5	B	CFS 300-3	0,3	0,001	**710,-**	962-128-127	145,-
CCS 30K0.01.	KFP 30V20M	30	1	C	CFS 3K-5	3	0,01	**580,-**	962-128-127	145,-
CCS 30K0.1.	KFP 30V20M	30	1	C	CFS 6K0.1	6	0,1	**570,-**	962-128-128	175,-
CCS 60K0.01.	KFP 60V20M	60	0,2	C	CFS 3K-5	3	0,01	**580,-**	962-129-127	160,-
CCS 60K0.01L.	KFP 60V20LM	60	0,2	D	CFS 3K-5	3	0,01	**660,-**	962-129-127	160,-
CCS 60K0.1.	KFP 60V20M	60	0,2	C	CFS 6K0.1	6	0,1	**550,-**	962-129-128	175,-
CCS 60K0.1L.	KFP 60V20LM	60	0,2	D	CFS 6K0.1	6	0,1	**610,-**	962-129-128	175,-
CCS 150K0.01	KFP 150V20M	150	5	D	CFS 3K-5	3	0,01	**690,-**	962-129-127	160,-
CCS 150K0.01L	KFP 150V20LM	150	5	E	CFS 3K-5	3	0,01	**900,-**	962-129-127	160,-
CCS 150K0.1.	KFP 150V20M	150	5	D	CFS 6K0.1	6	0,1	**610,-**	962-129-128	175,-
CCS 150K0.1L	KFP 150V20LM	150	5	E	CFS 6K0.1	6	0,1	**860,-**	962-129-128	175,-
CCS 300K0.1	KFP 300V20M	300	10	E	CFS 6K0.1	6	0,1	**860,-**	962-129-128	175,-
CCS 300K0.01	KFP 300V20M	300	10	E	CFS 3K-5	3	0,01	**900,-**	962-129-127	160,-
CCS 600K-2	KFP 600V20SM	600	200	F	CFS 3K-5	3	0,01	**1600,-**	962-130-127	237,-
CCS 600K-2L	KFP 600V20M	600	200	G	CFS 3K-5	3	0,01	**1990,-**	962-130-127	237,-
CCS 600K-2U	KFU 600V20M	600	200	I	CFS 3K-5	3	0,01	**1550,-**	962-130-127	237,-
CCS 1T-1	KFP 1500V20SM	1500	500	F	CFS 6K0.1	6	0,1	**1550,-**	962-130-128	253,-
CCS 1T-1L	KFP 1500V20M	1500	500	G	CFS 6K0.1	6	0,1	**1930,-**	962-130-128	253,-
CCS 1T-1U	KFU 1500V20M	1500	500	I	CFS 6K0.1	6	0,1	**1480,-**	962-130-128	253,-
CCS 3T-1	KFP 3000V20M	3000	1000	G	CFS 6K0.1	6	0,1	**1950,-**	962-132-128	528,-
CCS 3T-1L	KFP 3000V20LM	3000	1000	H	CFS 6K0.1	6	0,1	**2150,-**	962-132-128	528,-

Premium counting system KERN CCP

PREMIUM
★★★

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

Features

- The highly accurate KERN CCP counting system can replace a whole range of individual balances, efficiently and at a reasonable price
- **1** **High level of connectivity:** Thanks to a range of integrated interfaces
- **2** Easy entering of item data using the connected barcode or RFID scanner
- **USB interface** for transferring weighing data to the PC, printer, USB sticks etc.
- **Alibi memory:** electronic archiving of weighing results
- **User-friendly batch management** with batch master and batch number assignment, classification, batch derivation, batch determination, batch status management, shelf-life processing, documentary, original

and WIP batches, batch-specific units of measure, batch where-used list
- **3** 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
- For additional details on the reference scale, see KERN ILT
- For additional details on the quantity scale see KERN KXP/KFP

Technical data

ILT
- Large backlit LCD touch display, digit height 21 mm, screen diagonal 5,7" (115×86 mm)

- Dimensions weighing surface, stainless steel
  ILT 6K-4BAM: W×D 195×195 mm
  ILT 6K-3GAM: W×D 230×230 mm
  ILT 10K-3GAM: W×D 300×240 mm
- Connection cable approx.
  ILT-BAM: 1,5 m
- Cable length of display device approx.
  ILT-BAM: 1 m
  ILT-GAM: 2,5 m
- Permissible ambient temperature
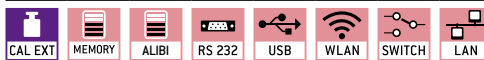 ILT-BAM: 15 °C/30 °C
  ILT-GAM: -10 °C/40 °C

4 **KXP V20 IP65** / **5** **KFP V20 IP67**
- Dimensions weighing surface
  A W×D 300×240 mm, stainless steel
  B W×D 400×300 mm, stainless steel
  C W×D 500×400 mm, stainless steel
  D W×D 650×500 mm, stainless steel
  E W×D 1500×1250 mm, steel, painted
  F W×D 1500×1500 mm, steel, painted
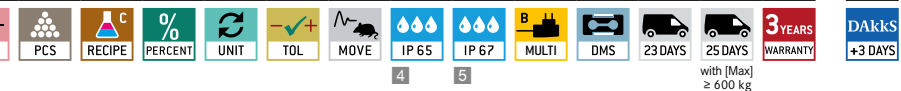- Permissible ambient temperature
  -10 °C/40 °C

Accessories

- **Suitable printers** and further, extensive accessories see internet

08

STANDARD | OPTION

| CAL EXT | MEMORY | ALIBI | RS 232 | USB | WLAN | SWITCH | LAN | PCS | RECIPE | PERCENT | UNIT | TOL | MOVE | IP 65 | IP 67 | MULTI | DMS | 23 DAYS | 25 DAYS with [Max] ≥ 600 kg | 3 YEARS WARRANTY | DAkkS +3 DAYS |

4 | **5**

Model KERN	Quantity scale KXP	Weighing range [Max] kg	Readout [d] g	Weighing plate	Reference scale ILT	Weighing range [Max] kg	Readout [d] g	Price excl. of VAT ex works €	Options DAkkS Calibr. Certificate	
									DKD KERN	€
CCP 10K-4	KXP 15V20M	15	0,5	A	ILT 6K-4BAM	6	0,1	**2900,-**	962-128-128	175,-
CCP 30K-4	KXP 30V20M	30	1	B	ILT 6K-4BAM	6	0,1	**3000,-**	962-128-128	175,-
CCP 60K-4	KXP 60V20M	60	2	B	ILT 6K-4BAM	6	0,1	**2900,-**	962-129-128	175,-
CCP 60K-4L	KXP 60V20LM	60	2	C	ILT 6K-4BAM	6	0,1	**3000,-**	962-129-128	175,-
CCP 100K-3	KXP 150V20M	150	5	C	ILT 10K-3GAM	6 | 15	2 | 5	**2600,-**	962-129-128	175,-
CCP 300K-4	KXP 300V20M	300	10	D	ILT 6K-4BAM	6	0,1	**3300,-**	962-129-128	175,-
CCP 600K-3	KXP 600V20M	600	200	E	ILT 6K-3GAM	3 | 6	1 | 2	**3800,-**	962-130-128	253,-
CCP 600K-4	KXP 600V20M	600	200	E	ILT 6K-4BAM	6	0,1	**4200,-**	962-130-128	253,-
CCP 3T-7	KXP 3000V20M	3000	1000	E	ILT 6K-4BAM	6	0,1	**4300,-**	962-132-128	528,-
CCP 3T-7L	KFP 3000V20LM	3000	1000	F	ILT 6K-4BAM	6	0,1	**4200,-**	962-132-128	528,-

! ONLY WHILE STOCKS LAST !

Premium counting system KERN CCT
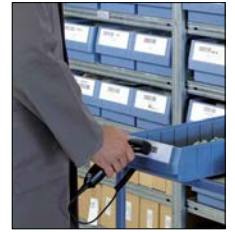
Reference scale KERN PLJ-C

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

- The highly accurate KERN CCT counting system can replace a whole range of individual balances, 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:** electronic archiving of weighing results
- [1] **High level of connectivity:** Thanks to a range of integrated interfaces
- **USB interface** 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. In this way the data related to these processes

is documented accurately, efficiently and clearly
- For additional details on the reference scale, see KERN PLJ-C/AEJ-C
- For additional details on the quantity scale see KERN ILT

Technical data

PLJ-C
- Backlit LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel PLJ 300-3CM, PLJ 600-3CM: W×D 128×128 mm PLJ 3000-2CM: W×D 195×195 mm
- Overall dimensions W×D×H 206×333×99,5 mm (without draught shield) 206×333×167,2 mm (incl. draught shield)
- Net weight approx. 4,8 kg
- Permissible ambient temperature 10 °C/40 °C

AEJ-C
- Backlit LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel, ∅ 85 mm
- Overall dimensions W×D×H 206×335×335 mm
- Net weight approx. 6 kg
- Permissible ambient temperature 10 °C/40 °C

ILT
- Dimensions weighing surface, stainless steel
  - [A] W×D 195×195 mm
  - [B] W×D 300×240 mm
  - [C] W×D 400×300 mm, see larger picture
  - [D] W×D 500×400 mm
- Connection cable approx.1,5 m
- Cable length of display device approx. ILT-BAM: 1 m ILT-GAM: 2,5 m
- Permissible ambient temperature 15 °C/30 °C

Accessories

- **Suitable printers** and further, extensive accessories see internet

|						STANDARD												OPTION	FACTORY
CAL EXT	MEMORY	ALIBI	RS 232	USB	WLAN	SWITCH	LAN	PCS	RECIPE	PERCENT	UNIT	TOL	MOVE	MULTI	DMS ILT	FORCE AEJ, PLJ	23 DAYS	3 YEARS WARRANTY	DAkkS +3 DAYS	M +3 DAYS

Model KERN	Quantity scale ILT	Weighing range [Max] kg	Readout [d] g	Weighing plate	Reference scale PLJ	Weighing range [Max] kg	Readout [d] g	Price excl. of VAT ex works €	Options Verification M KERN	€	DAkkS Calibr. Certificate DKD KERN	€
CCT 6K-6	ILT 6K-4BAM	6	0,1	A	PLJ 300-3CM	0,36	0,001	**4100,-**	965-217-216	143,-	962-128-127	145,-
CCT 10K-6	ILT 10K-3GAM	6 | 15	2 | 5	B	PLJ 300-3CM	0,36	0,001	**2700,-**	965-228-216	121,-	962-128-127	145,-
CCT 10K-7 [3]	ILT 10K-3GAM	6 | 15	2 | 5	B	AEJ 200-4CM	0,22	0,0001	**3100,-**	965-228-201	165,-	962-128-101	226,-
CCT 30K-5	ILT 30K-2GAM	15 | 30	5 | 10	C	PLJ 3000-2CM	3,5	0,01	**2800,-**	965-228-216	121,-	962-128-127	145,-
CCT 60K-6	ILT 60K-2GAM	30 | 60	10 | 20	C	PLJ 600-3CM	0,6	0,001	**2800,-**	965-229-216	159,-	962-129-127	160,-
CCT 60K-5 [2]	ILT 60K-2GAM	30 | 60	10 | 20	C	PLJ 3000-2CM	3,5	0,01	**2800,-**	965-229-216	159,-	962-129-127	160,-
CCT 60K-5L	ILT 60K-2LGAM	30 | 60	10 | 20	D	PLJ 3000-2CM	3,5	0,01	**3000,-**	965-229-216	159,-	962-129-127	160,-
CCT 100K-5	ILT 100K-2GAM	60 | 150	20 | 50	D	PLJ 3000-2CM	3,5	0,01	**2900,-**	965-229-216	159,-	962-129-127	160,-
CCT 100K-5L	ILT 100K-2LGAM	60 | 150	20 | 50	D	PLJ 3000-2CM	3,5	0,01	**3000,-**	965-229-216	159,-	962-129-127	160,-
CCT 300K-5	ILT 300K-2GAM	150 | 300	50 | 100	D	PLJ 3000-2CM	3,5	0,01	**3000,-**	965-229-216	159,-	962-129-127	160,-

! ONLY WHILE STOCKS LAST !

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.
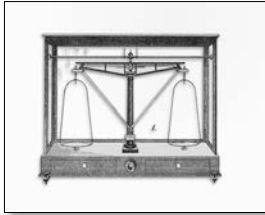
▸ 1844
KERN is founded – precision balances are produced

▸ 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/EU)

▸ 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

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

AUTHORISATION FOR INITIAL VERIFICATION BY THE MANUFACTURER 2014/31/EU

German Excellence Group Member