

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
 Image: Image:
- 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
 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
 - A 230×230×110 mm
 - 300×240×110 mm
 - C 400×300×128 mm
 - 500×400×137 mm
 - 500×650×135 mm
 - 1000×1000×80 mm
 1500×1250×80 mm
 - H 1500×1250×80 mm
 - 842×1300×90 mm
- Connection cable approx.
 A C 2 m
 C S m

Counting system KERN CCS





I 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

Accessories

- Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05
- Rechargeable battery pack internal, operating time up to 60 h without backlight, charging time approx. 12 h, KERN GAB-A04
- Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03
- **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
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD	OPTION
Image: CAL EXT MEMORY RS 232 DUAL PCS SUM TOL MULTI DMS 4 Days 5 Days	ACCU DAkks
with [Max] > 500 kg	

Model	Quantity scale	Weighing	Readout	Weighing	Reference	Weighing	Readout	Options
		range	noudout	plate	scale	range	lioudout	DAkkS Calibr. Certificate
		[Max]	[d]			[Max]	[d]	DKD
KERN	KFP	kg	g		CFS	kg	g	KERN
CCS 6K-6	KFP 6V20M	6	2	A	CFS 300-3	0,3	0,001	962-128-127
CCS 10K-6	KFP 15V20M	15	0,5	В	CFS 300-3	0,3	0,001	962-128-127
CCS 30K0.01.	KFP 30V20M	30	1	С	CFS 3K-5	3	0,01	962-128-127
CCS 30K0.1.	KFP 30V20M	30	1	C	CFS 6K0.1	6	0,1	962-128-128
CCS 60K0.01.	KFP 60V20M	60	0,2	С	CFS 3K-5	3	0,01	962-129-127
CCS 60K0.01L.	KFP 60V20LM	60	0,2	D	CFS 3K-5	3	0,01	962-129-127
CCS 60K0.1.	KFP 60V20M	60	0,2	С	CFS 6K0.1	6	0,1	962-129-128
CCS 60K0.1L.	KFP 60V20LM	60	0,2	D	CFS 6K0.1	6	0,1	962-129-128
CCS 150K0.01	KFP 150V20M	150	5	D	CFS 3K-5	3	0,01	962-129-127
CCS 150K0.01L	KFP 150V20LM	150	5	E	CFS 3K-5	3	0,01	962-129-127
CCS 150K0.1.	KFP 150V20M	150	5	D	CFS 6K0.1	6	0,1	962-129-128
CCS 150K0.1L	KFP 150V20LM	150	5	E	CFS 6K0.1	6	0,1	962-129-128
CCS 300K0.1	KFP 300V20M	300	10	E	CFS 6K0.1	6	0,1	962-129-128
CCS 300K0.01	KFP 300V20M	300	10	E	CFS 3K-5	3	0,01	962-129-127
CCS 600K-2	KFP 600V20SM	600	200	F	CFS 3K-5	3	0,01	962-130-127
CCS 600K-2L	KFP 600V20M	600	200	G	CFS 3K-5	3	0,01	962-130-127
CCS 600K-2U	KFU 600V20M	600	200	1	CFS 3K-5	3	0,01	962-130-127
CCS 1T-1	KFP 1500V20SM	1500	500	F	CFS 6K0.1	6	0,1	962-130-128
CCS 1T-1L	KFP 1500V20M	1500	500	G	CFS 6K0.1	6	0,1	962-130-128
CCS 1T-1U	KFU 1500V20M	1500	500	1	CFS 6K0.1	6	0,1	962-130-128
CCS 3T-1	KFP 3000V20M	3000	1000	G	CFS 6K0.1	6	0,1	962-132-128
CCS 3T-1L	KFP 3000V20LM	3000	1000	Н	CFS 6K0.1	6	0,1	962-132-128

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 2014/31/EU standard.



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.



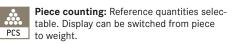
Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module.



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.



Recipe level A: Separate memory for the weight of the tare container and the recipe 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.

Weighing units: Can be switched to e.g. non-

metric units at the touch of a key. See balance

Weighing with tolerance range: Upper and

lower limiting values can be programmed indivi-

dually for e.g. dosing, sorting and portioning.

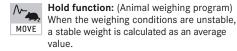
model. Please refer to KERN's website for

Percentage determination: Determining <u>70</u> the deviation in % from the target value PERCENT (100 %).

more details.

S UNIT





a stable weight is calculated as an average value. Protection against dust and water splashes **666** IPxx: The type of protection is shown in the IP



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 BATT for each device.

KERN – Precision is our business

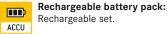
To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAkkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAkkS calibration laboratory today is one of the most modern and best-equipped DAkkS calibration laboratories for balances, test weights and forcemeasurement in Europe.

Thanks to the high level of automation, we can carry out DAkkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- · DAkkS calibration of balances with a maximum load of up to 50 t
- DAkkS calibration of weights in the range of 1 mg 2500 kg
- · Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- · Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAkkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL, PL · Conformity evaluation and reverification of balances and test weights
 - SOHN GmbH is under license. Other trademarks and trade names are those of their respective owner



Universal mains adapter: with universal input and optional input socket adapters for MULTI 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 230 V version available.



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



Weighing principle: Strain gauge 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.

<u>آ</u>بوا SC TECH



Verification possible:

The time required for verification is specified +3 DAYS 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.

Your KERN specialist dealer:



INOX

pictogram.