Counting system KERN CCS



Counting the smallest parts in the largest quantities, counting resolution up to 6 Mio. points

Features

STANDARD

CAL EXT

• With this highly-accurate KERN CCS counting system you can replace a large spectrum of individual counting scales

Reference scale KERN CFS:

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

- Programmable using numerical key pad: - required reference quantity
- known reference weight
- Memory (PLU) for 100 items with additional text
- Fill-to-targetf unction: Programmable target weight. An acoustic and visual signal will be displayed when the target value is reached

DUAL

TOL

230 V

• 6668. •

RS 232

MEMORY

- Precisec ounting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Details page 83

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

- Stainless steel platform, Steel substructure lacquered
- Aluminium singlepoint load cell (1 x 3000 e), IP65 protection
- Details page 114

Technical data

DMS

KFP:

- · Dimensions of weighing steel) WxDxH
- A 400x300x128 mm B C 650x500x142 mm

3YFAR

Connection cable approx. 1,5 m

1 DAY



+3 DAYS

E

ACCU

	0
g plate (stainless	with tole
	mm, KEF
500x400x137 mm	 2nd data

• Suitable printers see page 130

Model	Quantity scale	Weighing range [Max]	Read- out [d]	Weighing plate	Reference scale	Weighing range [Max]	Read- out [d]	Min. piece weight [PW min]	Option DKD Calibr. Certificate
KERN	KFP	kg	g		CFS	kg	g	g/piece	KERN
CCS 30K0.01	KFP 30V20M	30	10	A	CFS 3K-5	3	0,01	0,05	962-128-128
CCS 30K0.1	KFP 30V20M	30	10	A	CFS 6K0.1	6	0,1	0,1	962-129-128
CCS 60K0.01	KFP 60V20M	60	20	А	CFS 3K-5	3	0,01	0,05	962-129-128
CCS 60K0.01L	KFP 60V20LM	60	20	В	CFS 3K-5	3	0,01	0,05	962-129-128
CCS 60K0.1L	KFP 60V20LM	60	20	В	CFS 6K0.1	6	0,1	0,1	962-129-128
CCS 150K0.01	KFP 150V20M	150	50	В	CFS 3K-5	3	0,01	0,05	962-129-128
CCS 150K0.01L	KFP 150V20LM	150	50	С	CFS 3K-5	3	0,01	0,05	962-129-128
CCS 150K0.1	KFP 150V20M	150	50	В	CFS 6K0.1	6	0,1	0,1	962-129-128
CCS 300K0.01	KFP 300V20M	300	100	С	CFS 3K-5	3	0,01	0,05	962-129-128



II 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.

CFS:

- Large backlit LCD displays, digit height 20 mm
- Overall dimensions WxDxH 320x350x125 mm
- Dimensions of weighing plate (stainless steel) WxD 294x225 mm
- Net weight approx. 3,8 kg

Accessories

- Reference scale also available separately, details see page 80, KERN CFS 6K0.1
- · Rechargeable battery pack internal, operating time approx. 60 h, charging time approx. 14 h, KERN GAB-A04, € 40,-
- ISignal lamp for visual support of weighing erance range, WxDxH 100x180x300 RN CFS-A03
- a interface, Y cable for parallel connection of two terminal devices to the RS 232 interface of the balance, e.g. of a printer, signal lamp etc. **KERN CFS-A04**

KERN Pictograms



balance's accuracy with internal adjusting weight (motordriven). Data interface RS-232: To connect the

Internal adjusting (CAL): Quick setting of the



balance to a printer, PC or network Network interface: For connecting the scale to



an Ethernet network. With KERN products you can also use a universal RS-232/LAN converter.



Net-total weighing: weight of tare cup and weight of components memorized in two separate stores.



Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning. Stainless steel: the balance is protected against



corrosion.

Rechargeable battery pack: rechargeable set.

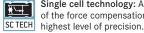


ACCU

Strain gauges: Electrical resistor on an elastic



deforming body.



Single cell technology: Advanced version of the force compensation principle with the



Package shipment: The time required to manufacture the product internally is shown in days in the pictogram.



To ensure the high level of precision of your balance, KERN offers the appropriate test weight package for your balance. This consists of the test weight, box and DKD calibration certificate, as proof of its accuracy. The best way to ensure proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E1, E2, F1, F2, M1, M2, and M3 with weights from 1 mg to 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe. (DKD = German Calibration Service ~ UKAS)

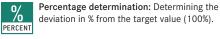
Your KERN specialist dealer:

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

Control outputs (optocoupler, _____ digital I/O) to connect relays, signal lamps, SWITCH valves, etc.



GLP/ISO record keeping: of weighing data with date, time and identification-no. Only with printers from KERN.



Vibration-free weighing: (Animal weighing Mprogram) Vibrations are filtered out so that MOVE a stable weight is obtained.

Suspended weighing: load support with hook Ē on the underside of the balance. UNDER

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

Tuning fork principle: A resonating body is $((\mathbf{U}))$ electromagnetically excited, causing it to T-FORK oscillate.



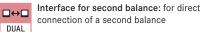
Verification possible: The time required for verification is specified in the pictogram.

Pallet shipment:

The time required to manufacture the product DAYS internally is shown in days in the pictogram.



Memory: Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU





UNIT

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

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

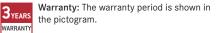
Spray and dust protection IPxx: 666 The type of protection is shown by the IP pictogram. For details see the glossary.

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

Power supply: integrated in balance. 230V/50Hz in Germany. 230 V More standards e. g. GB, AUS, USA on request.

Electromagnetic force compensation: Coil in N a permanent magnet. For the most accurate FORCE weighings.

DKD calibration possible: The time required DKD for DKD calibration is shown in days in the +3 DAYS pictogram.



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

Range of services:

- DKD calibration of balances with a maximum load of up to 6000 kg
- DKD calibration of weights in the range of 1 mg 500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DKD calibration certificates in the following languages D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponsing test weight or the calibration service ? Your KERN specialist dealer will be pleased to assist you.

KERN - Professional measuring. Measuring technology and testing services from a single source









