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 pieces
- **Counting results memory:** adds up all individual piece counts, result is shown in total weight and total pieces
- **Fill-to-target function:** Target count or target weight can be programmed. 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

- **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
- **Protective working cover** included with delivery

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 315×350×105 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05
- **Rechargeable battery pack internal**, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04
- **1 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 and printer, KERN CFS-A04
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight [Normal] g/piece	Counting resolution Points		Option	
								Verification M KERN	DAkkS Calibr. Certificate DAkkS KERN
CPB 6K0.1N	6	0,1	-	-	1	60.000		-	963-128
CPB 15K0.2N	15	0,2	-	-	2,5	60.000		-	963-128
CPB 30K0.5N	30	0,5	-	-	5	60.000		-	963-128
Dual-range balance switches automatically to the next largest weighing capacity [Max] and readibility [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	1	60.000		965-228	963-128
CPB 15K2DM	6 | 15	2 | 5	2 | 5	40	2,5	60.000		965-228	963-128
CPB 30K5DM	15 | 30	5 | 10	5 | 10	100	5	60.000		965-228	963-128

Datasheet_CPB_V1

Pictograms

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

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

Easy Touch:
Suitable for the connection, data transmission and control through PC, tablet or smartphone
EASY-T

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

Alibi memory:
Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.
ALIBI

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

RS-485 data interface:
To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible
RS 485

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

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

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

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

Analogue interface:
to connect a suitable peripheral device for analogue processing of the measurements
ANALOG

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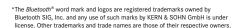For direct connection of a second balance
DUAL

Network interface:
For connecting the scale to an Ethernet network
LAN

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

*The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under license. Other trademarks and trade names are those of their respective owners.

KERN Communication Protocol (KCP):
It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems
KCP PROTOCOL

GLP/ISO log:
The balance displays serial number, user ID, weight, date and time, regardless of a printer connection
GLP INTERN

GLP/ISO log:
With weight, date and time. Only with KERN printers
GLP PRINTER

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

Recipe level A:
The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out
RECIPE A

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

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
RECIPE C

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

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

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
UNIT

Weighing with tolerance range:
(Checkweighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model
TOL

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

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram.
IP

Stainless steel:
The balance is protected against corrosion
INOX

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

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

Rechargeable battery pack:
Rechargeable set
ACCU

Universal mains adapter:
with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS
MULTI

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

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

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

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

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

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

Verification possible:
The time required for verification is specified in the pictogram
M +3 DAYS

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

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

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

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 force-measurement 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

Your KERN specialist dealer: