PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

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KERN CCS 30K0.01.

Counting system to count the smallest parts in large quantities, maximum number of parts which can be displayed is 999,999

ENGLISH



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APPLICATION EXAMPLE



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 3K-5

- This professional counting scale, which can also be used as a stand-alone scale, meets the highest demands for accuracy, weighing capacity and volume of items, by being connected to a high-capacity weighing bridge
- Programmable using numerical key pad:
  - required reference quantity
  - known reference weight
- Three displays for weight display, reference weight, total pieces
- Memory (PLU) for items with additional text, reference weight and tare weight, e.g. of a container
- Fill-to-target function: Target count or target weight can be programmed. When the target weight is reached there is an audible and visual signal
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Protective working cover included with delivery

Quantity scale KERN KFP 30V20M

- The high-accuracy quantity counting takes place on the weighing platform. In this way even the smallest of parts can be counted in large volumes
- Weighing plate stainless steel, painted steel base
- Aluminium singlepoint load cell (1×3000 e), protection against dust and water splashes IP65

TECHNICAL DATA

Reference scale KERN CFS 3K-5
- Overall dimensions W×D×H 315×350×100 mm
- Weighing platform dimensions, stainless steel, W×D 295×225 mm
- Net weight approx. 3,4 kg

Quantity platform KERN KFP-V20 IP65
- Weighing platform dimensions W×D×H, stainless steel, W×D×H 400×300×114 mm
- Connection cable approx.

MAIN SCOPE OF APPLICATIONS

- Quality assurance
- Counting applications
- Assembly and parts logistics
- Packaging industry
- Order picking and inventory

PICTOGRAMS

Standard



Option



MODEL OVERVIEW

Model	Weighing range Reference scale [Max]	Readout Reference scale [d]	Weighing capacity Quantity scale [Max]	Readability Quantity scale [d]	Smallest part weight (Normal)
CCS 10K-6	0,3 kg	1 mg	15 kg	0,0005 kg	50 mg
CCS 150K0.01	3 kg	10 mg	150 kg	0,005 kg	500 mg
CCS 150K0.01L	3 kg	10 mg	150 kg	0,005 kg	500 mg
CCS 150K0.1.	6 kg	100 mg	150 kg	0,005 kg	1 g
CCS 150K0.1L	6 kg	100 mg	150 kg	0,005 kg	1 g
CCS 1T-1U	6 kg	100 mg	1500 kg	0,5 kg	1 g
CCS 300K0.01	3 kg	10 mg	300 kg	0,01 kg	500 mg
CCS 300K0.1	6 kg	100 mg	300 kg	0,01 kg	1 g
CCS 30K0.01.	3 kg	10 mg	30 kg	1 g	500 mg
CCS 30K0.1.	6 kg	100 mg	30 kg	0,001 kg	1 g

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Model	Weighing range Reference scale [Max]	Readout Reference scale [d]	Weighing capacity Quantity scale [Max]	Readability Quantity scale [d]	Smallest part weight (Normal)
CCS 600K-2U	3 kg	10 mg	600 kg	0,2 kg	500 mg
CCS 60K0.01.	3 kg	10 mg	60 kg	0,002 kg	500 mg
CCS 60K0.01L.	3 kg	10 mg	60 kg	0,002 kg	500 mg
CCS 60K0.1.	6 kg	100 mg	60 kg	0,002 kg	1 g
CCS 60K0.1L.	6 kg	100 mg	60 kg	0,002 kg	1 g
CCS 6K-6	0,3 kg	1 mg	6 kg	0,0002 kg	50 mg

ACCESSORIES

Model	Description
315-312-308	Safety set 315-312-308, included weight 200 g (F2); 2000 g (F2)
AFH 13	Converter RS232 to USB AFH 13
CFS-A01	RS232 interface cable CFS-A01
CFS-A02	Protective working cover CFS-A02
CFS-A02S05	Protective working cover CFS-A02S05, scope of delivery: 5 items
CFS-A03	Signal lamp KERN CFS-A03
CFS-A04	RS-232 Y-interface cable CFS-A04
GAB-A04	Rechargeable battery pack GAB-A04 (Pb)
PFB-A02	Power adapter PFB-A02 (12 V, 500 mA | 100 V - 240 V, 50 / 60 Hz | EURO, CH)
PFB-A03	Power adapter PFB-A03 (12 V, 500 mA | 100 V - 240 V, 50 / 60 Hz | UK)
PFB-A04	Power adapter PFB-A04 (12 V, 500 mA | 100 V - 240 V | US)
YGR-01	ESD grounding plug incl. grounding cable YGR-01
YKA-11	Power adapter YKA-11 (12 V, 500 mA | 100 - 240 V~ 50/60 Hz 190 mA | EURO, AUS, UK, US, CH)
YKC-01	Thermal printer YKC-01
YKG-01	Dot Matrix Printer YKG-01
YKI-10	RS232-Ethernet adapter YKI-10 (RS-232 standard, Ethernet, RS-485)
YKI-11	RS232-Ethernet adapter YKI-11 (Ethernet, RS-232 standard - 2x)
YKI-12	RS232-WiFi adapter YKI-12
YKT-01	Needle printer YKT-01
YRO-01	roller conveyor YRO-01

SOFTWARE

Model	Description
SCD-4.0-DL	Software SCD-4.0-DL (Scope of supplies: Download link for 1 license)
SCD-4.0-DLS05	Software SCD-4.0-DLS05 (Scope of supplies: Download link for 5 licenses)
SCD-4.0-PRO-DL	Software SCD-4.0-PRO-DL (Scope of supplies: Download link for 1 license)
SCD-4.0-PRO-DL-AS05	Software SCD-4.0-PRO-DL-AS05 (Scope of supplies: Download link for 5 licenses)

SERVICES

Model	Description
962-128-127	DAkkS calibration certificate 962-128-127
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517
970-103	Warranty extension (+2 years) 970-103

KERN Pictogram Overview

	External adjustment: Adjusting accuracy using external adjustment weight
	Memory: Device-internal memory capacity, e.g. for article data, measuring data, tare weights, PLU etc.
	Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible
	KERN Communication Protocol (KCP): 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
	Piece counting: Reference quantities selectable. Display can be switched from piece to weight
	Sum function: The weight values of weighed items can be added together and the total printed out
	Measuring with tolerance range (checkweighing): Upper and lower limit values can be programmed, e.g. for sorting, portioning or for measuring coatings or material thicknesses. The process is supported by an acoustic and/or optical signal
	Universal plug-in power supply: With universal input and optional input socket adapters for EU, CH, GB or EU, CH, GB, US or EU, CH, GB, US, AUS
	Weighing principle Strain gauges: Electrical resistor on an elastic deforming body
	Package shipment by courier service: The duration of internal product provision are two days
	Rechargeable battery pack: Rechargeable set
	Accredited calibration (DKD): The duration of the accredited calibration is 3 working days

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