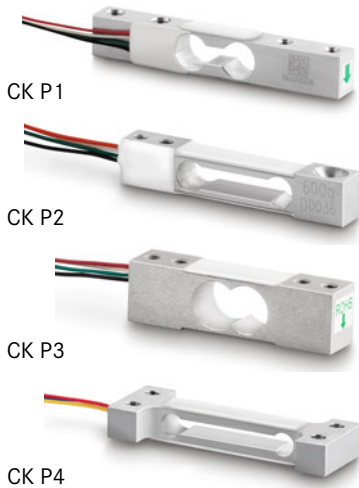## Load cells SAUTER CK P1-P4 · CK Y1 · CK Y4 · CD P1

CK P1

CK P2

CK P3

CK P4

CK Y1

CK Y4

Fig. shows optional accessory, mounting kit
[1] SAUTER CE P4136
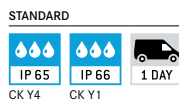
CK P1-4

Miniature load cells made of aluminium

STANDARD

IP 65 · 1 DAY

OPTION

DAkkS +3 DAYS · ISO +4 DAYS

- Dust and spray protection to IP65 (in accordance with EN 60529)
- Aluminium
- High level of accuracy
- Suitable for small scales and kitchen scales and force-measuring devices
- 4-wire connection

CK Y1 · Y4

Flat miniature alloy steel load cells

STANDARD

IP 65 CK Y4 · IP 66 CK Y1 · 1 DAY

- Accuracy class in accordance with OIML C1
- RoHS compliant
- High precision (comprehensive Error 0,05 % F.S.)
- Very low design
- Suitable for e.g. personal scales, kitchen scales, post scales or other scales with lowest instasllation height

CK Y1:
- Protection against dust and water splashes IP66
- Scope of delivery: 1 piece
- Full-bridge circuit (Junction box required for connecting several measuring cells)

CK Y4:
- Protection against dust and water splashes IP65
- Scope of delivery: 1 set (4 pieces)
- Quarter-bridge circuit: 4 load cells are connected to a full-bridge
- No junction box required
- Corner adjustment not possible

CD P1

Load cells made of stainless steel

STANDARD

IP 68 · M · 1 DAY

OPTION

ISO +4 DAYS *

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Dust and spray protection to IP68 (in accordance with EN 60529), hermetically encapsulated
- Stainless steel
- Area of application: Weight measurement as well as compressive force
- Suitable for vehicle scales, weigh hoppers, vehicle testing equipment, test benches
- Note: EX version or accuracy class C4 on request
- Nominal sensitivity: 2 mV/V

Accessories CD P1:

- Pressure piece, steel, rustproof, suitable for CD 10-3P1, CD 20-3P1, SAUTER CE P10330
- Pressure piece, steel, rustproof, suitable for CD 40-3P1, CD 50-3P1, SAUTER CE P10350
- [1] Mounting kit, steel, rustproof, suitable for CD 10-3P1, CD 20-3P1, SAUTER CE P41430
- Mounting kit, steel, rustproof, suitable for CD 40-3P1, CD 50-3P1, SAUTER CE P14150

Model SAUTER	Nominal load kg	Compre-hensive Error
CK 600-0P1	0,6	0,03 %
CK 1-0P1	1	0,03 %
CK 2-0P1	2	0,03 %
CK 3-0P1	3	0,03 %
CK 5-0P1	5	0,03 %
CK 6-0P1	6	0,03 %
CK 300-0P2	0,3	0,03 %
CK 600-0P2	0,6	0,03 %
CK 1000-0P3	1	0,1 %
CK 100-0P4	0,1	0,05 %
CK 120-0P4	0,12	0,05 %
CK 300-0P4	0,3	0,05 %
CK 500-0P4	0,5	0,05 %

Model SAUTER	Nominal load kg
CK 10-Y1	10
CK 30-Y1	30
CK 10-Y4	10
CK 30-Y4	30
CK 50-Y4	50

Model SAUTER	Nominal load
CD 10-3P1	10 t/100 kN
CD 20-3P1	20 t/200 kN
CD 40-3P1	40 t/400 kN
CD 50-3P1	50 t/500 kN

* up to max. 25 t / 250 kN

Tip: Further details and technical data sheet as well as extensive accessories see internet

Pictograms

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

Calibration block:
Standard for adjusting or correcting the measuring device

Peak hold function:
Capturing a peak value within a measuring process

Scan mode:
Continuous capture and display of measurements

Push and Pull:
The measuring device can capture tension and compression forces

Length measurement:
Captures the geometric dimensions of a test object or the movement during a test process

Focus function:
Increases the measuring accuracy of a device within a defined measuring range

Internal memory:
To save measurements in the device memory

Data interface RS-232:
Bidirectional, for connection of printer and PC

Profibus:
For transmitting data, e.g. between scales, measuring cells, controllers and peripheral devices over long distances. Suitable for safe, fast, fault-tolerant data transmission. Less susceptible to magnetic interference.

Profinet:
Enables efficient data exchange between decentralised peripheral devices (balances, measuring cells, measuring instruments etc.) and a control unit (controller). Especially advantageous when exchanging complex measured values, device, diagnostic and process information. Savings potential through shorter commissioning times and device integration possible

Data interface USB:
To connect the measuring instrument to a printer, PC or other peripheral devices

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

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

Data interface Infrared:
To transfer data from the measuring instrument to a printer, PC or other peripheral devices

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

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

Analog output:
For output of an electrical signal depending on the load (e.g. voltage 0 V – 10 V or current 4 mA – 20 mA)

Statistics:
Using the saved values, the device calculates statistical data, such as average value, standard deviation etc.

PC Software:
To transfer the measurement data from the device to a PC

Printer:
A printer can be connected to the device to print out the measurement data

Network interface:
For connecting the scale/measuring instrument to an Ethernet network

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

GLP/ISO record keeping:
Of measurement data with date, time and serial number. Only with SAUTER printers

Measuring units:
Weighing units can be switched to e.g. non-metric. Please refer to website for more details

Measuring with tolerance range (limit-setting function):
Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013

ZERO:
Resets the display to "0"

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

Rechargeable battery pack:
Rechargeable set

Plug-in power supply:
230V/50Hz in standard version for EU. On request GB, AUS or USA version available

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

Motorised drive:
The mechanical movement is carried out by a electric motor

Motorised drive:
The mechanical movement is carried out by a synchronous motor (stepper)

Fast-Move:
The total length of travel can be covered by a single lever movement

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

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

Factory calibration:
The time required for factory calibration is specified 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

Your KERN specialist dealer: