Load Cells SAUTER CP P2 · CP P8 · CP P7 · CP P9

CP P2 · CP P8
Single-point load cell of aluminium

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Dust and spray protection to IP65
  (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales,
  bench scales, etc.
- Maximum platform size 100–300 kg:
  400×400 mm
- Maximum platform size 400–500 kg:
  450×450 mm
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 or
  C5 on request
- Cable length CP P2: 2 m
  Cable length CP P8: 3 m

CP P7
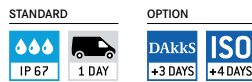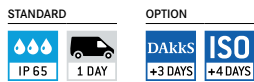**Single-point load cells
of stainless steel**

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Dust and spray protection to IP67
  (in accordance with EN 60529)
- Stainless steel
- Application example: Weight as well as
  compressive force measurements under harsh
  environmental conditions
- Suitable for bench scales, price-computing scales
- Maximum platform size 400×400 mm
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4
  on request
- Cable length approx. 1 m

CP P9
**Single-point load cells
of stainless steel**

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Dust and spray protection to IP68/IP69K
  (in accordance with EN 60529), welded to create
  a hermetic seal
- Stainless steel
- Area of application: Weight measurement
  as well as compressive force in harsh
  environments
- Suitable for platform scales, checkweighers
- Maximum platform size 10–50 kg:
  400×400 mm
- Maximum platform size 100–500 kg:
  800×800 mm
- 4-wire connection (10–50 kg)
- 6-wire connection (100–500 kg)
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 or
  C5 on request
- Cable length approx. 3 m

STANDARD | OPTION
IP 65 | 1 DAY | DAkkS +3 DAYS | ISO +4 DAYS

STANDARD | OPTION
IP 67 | 1 DAY | DAkkS +3 DAYS | ISO +4 DAYS

STANDARD | OPTION
IP 68 | IP 69K | M | 1 DAY | DAkkS +3 DAYS | ISO +4 DAYS

Model	Nominal load
SAUTER	kg
CP 100-3P2	100
CP 150-3P2	150
CP 200-3P2	200
CP 300-3P2	300
CP 400-3P2	400
CP 500-3P2	500
CP 50-3P8	50
CP 100-3P8	100
CP 150-3P8	150
CP 200-3P8	200
CP 250-3P8	250
CP 300-3P8	300
CP 500-3P8	500
CP 600-3P8	600

Model	Nominal load
KERN	kg
CP 30-3P7	30
CP 50-3P7	50
CP 75-3P7	75
CP 100-3P7	100
CP 150-3P7	150

! ## Tip

Further details and technical data sheet as
well as an extensive range of accessories
can be found at

Model	Nominal load
SAUTER	kg
CP 10-3P9	10
CP 20-3P9	20
CP 50-3P9	50
CP 100-3P9	100
CP 200-3P9	200
CP 300-3P9	300
CP 400-3P9	400
CP 500-3P9	500

! ONLY WHILE STOCKS LAST!

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 de-centralised 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

WIFI 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

Analogue 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 US version available

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

Conformity assessment
Models with type approval for construction of verifiable systems

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

Factory calibration (ISO)
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