Load Cells SAUTER CS P1 · CS Q1 · CS P2

CS P2 0,5–7,5 t

Fig. shows optional accessories SAUTER CE R20, for further accessories please visit our online shop

Fig. shows optional accessories traction device SAUTER CE Q12, for further accessories please visit our online shop

CS P2 50–250 kg

CS P1
4-wire “S” load cells made of nickel-plated steel for force and mass measurement

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Dust and spray protection to IP67 (in accordance with EN 60529), welded to create a hermetic seal
- Nickel-plated steel
- Scope of application: for tensile and compressive force measurement
- Suitable for handing scales, funnel scales and other weighing devices as well as force measurement devices and test stands
- 4-wire connection***
- Cable length up to 1500 kg: 3 m
  Cable length from 2000 kg: 6 m
- Note: EX version and accuracy class C4 on request
- Nominal sensitivity: 2 mV/V

STANDARD: IP 67, 1 DAY
OPTION: DAkkS +3 DAYS *, ISO +4 DAYS **

Model	Nominal load
SAUTER	
CS 25-3P1	25 kg/250 N
CS 50-3P1	50 kg/500 N
CS 100-3P1	100 kg/1 kN
CS 150-3P1	150 kg/1,5 kN
CS 250-3P1	250 kg/2,5 kN
CS 500-3P1	500 kg/5 kN
CS 600-3P1	600 kg/6 kN
CS 750-3P1	750 kg/7,5 kN
CS 1000-3P1	1 t/10 kN
CS 1500-3P1	1.5 t/15 kN
CS 2000-3P1	2 t/20 kN
CS 2500-3P1	2.5 t/25 kN
CS 5000-3P1	5 t/50 kN
CS 7500-3P1	7.5 t/75 kN
CS 10000-3P1	10 t/100 kN
CS 15000-3P1	15 t/150 kN
CS 20000-3P1	20 t/200 kN
CS 30000-3P1	30 t/300 kN

* up to max. 500 kg/5 kN,
** up to max. 25 t/250 kN

CS Q1
6-wire “S” load cells made of nickel-plated steel for force and mass measurement

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Dust and spray protection to IP67 (in accordance with EN 60529), hermetically encapsulated
- Nickel-plated steel
- Scope of application: for tensile and compressive force measurement
- Suitable for handing scales, funnel scales and other weighing devices as well as force measurement devices and test stands
- 6-wire connection***
- Nominal sensitivity: 2 mV/V
- Cable length approx. 5 m

STANDARD: IP 67, 1 DAY
OPTION: DAkkS +3 DAYS *, ISO +4 DAYS **

Model	Nominal load
SAUTER	
CS 50-3Q1	50 kg/500 N
CS 100-3Q1	100 kg/1 kN
CS 150-3Q1	150 kg/1,5 kN
CS 200-3Q1	200 kg/2 kN
CS 300-3Q1	300 kg/3 kN
CS 500-3Q1	500 kg/5 kN
CS 750-3Q1	750 kg/7,5 kN
CS 1000-3Q1	1 t/10 kN
CS 1500-3Q1	1.5 t/15 kN
CS 2000-3Q1	2 t/20 kN
CS 3000-3Q1	3 t/30 kN
CS 5000-3Q1	5 t/50 kN
CS 6000-3Q1	6 t/60 kN

* up to max. 500 kg/5 kN,
** up to max. 12 t/120 kN

CS P2
“S” load cells/load cells made of stainless steel

Technical data

- Accuracy in accordance with OIML C3
- RoHS compliant
- Dust and spray protection to IP68
- Stainless steel
- Scope of application: Weight measurement as well as force
- Suitable for handing scales, silo scales, force test stands and other diverse scales
- 4-wire connection***
- Nominal sensitivity: 2 mV/V
- Cable length approx. 6 m

STANDARD: IP 68, 1 DAY
OPTION: DAkkS +3 DAYS *, ISO +4 DAYS *

Model	Nominal load
SAUTER	
CS 50-3P2	50 kg/500 N
CS 100-3P2	100 kg/1 kN
CS 250-3P2	250 kg/2,5 kN
CS 500-3P2	500 kg/5 kN
CS 1000-3P2	1 t /10 kN
CS 2000-3P2	2 t/20 kN
CS 5000-3P2	5 t/50 kN
CS 7500-3P2	7.5 t/75 kN

* up to max. 500 kg/5 kN

! ONLY WHILE STOCKS LAST!

*** With 6-wire measuring circuits, the cable can be shortened without affecting the temperature compensation and the actual characteristic value. For 4-wire measuring circuits the cable length should not be changed

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

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