Load Cells SAUTER CS Y1 · CO Y1-Y4 · CO Y5

CS Y1

CO Y1

CO Y2/CO Y3

CO Y4

CS Y1
Miniature "S" load cells/load cells made of stainless steel

Technical data

- High precision (comprehensive Error 0,05 % F.S.)
- RoHS compliant
- Dust and spray protection to IP65
- Stainless steel
- Scope of application: for tensile and compressive force measurement, weight measurement as well as force
- Suitable for force test stands, handing scales, silo scales and other diverse scales
- Cable length approx. 2 m
- Nominal sensitivity: 1,3 – 2 mV/V, depending on nominal load

CO Y1 – Y4
Miniature button-type load cells made of stainless steel

CO Y1/CO Y4:

- RoHS compliant
- Dust and spray protection to IP65/IP67
- Scope of application: compressive force applications
- Suitable for weight measurement as well as force and force test stands
- Nominal sensitivity: 1.0 – 1.5 mV/V, depending on nominal load

CO Y2/Y3:

- RoHS compliant
- Dust and spray protection to IP65/IP66
- Scope of application: for tensile and compressive force measurement
- Suitable for weight measurement as well as force and force test stands
- Nominal sensitivity: 1,5 – 2 mV/V, depending on nominal load
- Cable length approx. 2 m

CO Y5
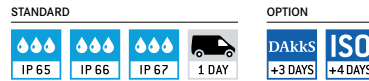### Tension and compression load cells made of stainless steel

Technical data

- Accuracy in accordance with OIML R60 G1
- CE and RoHS compliant
- Dust and spray protection to IP66 (in accodance with EN60529)
- Stainless steel
- Very low design
- Suitable for test stands, force gauges, automation systems, etc.
- 4-wire connection
- Nominal sensitivity:
  CO 0.5-Y5, CO 1-Y5: 1 mV/V
  CO 5-Y5, CO 10-Y5: 2 mV/V
- Cable length approx. 2 m

STANDARD — IP 65 / 1 DAY   OPTION — ISO +4 DAYS

STANDARD — IP 65 (CO Y1, CO Y2) / IP 66 (CO Y3) / IP 67 (CO Y4) / 1 DAY   OPTION — DAkkS +3 DAYS ** / ISO +4 DAYS

STANDARD — IP 66 / 1 DAY   OPTION — DAkkS +3 DAYS (not CO 0.5-Y5) / ISO +4 DAYS

Model — Nominal load

SAUTER	Nominal load
CS 1-Y1	1 kg/10 N
CS 2-Y1	2 kg/20 N
CS 5-Y1	5 kg/50 N
CS 10-Y1	10 kg/100 N
CS 20-Y1	20 kg/200 N

SAUTER	Nominal load
CO 10-Y1	10 kg/100 N
CO 20-Y1	20 kg/200 N
CO 50-Y1	50 kg/500 N
CO 100-Y1	100 kg/1 kN
CO 200-Y1	200 kg/2 kN
CO 500-Y1	500 kg/5 kN
CO 1000-Y1	1000 kg/10 kN
CO 2000-Y1	2000 kg/20 kN
CO 10-Y2	10 kg/100 N
CO 20-Y2	20 kg/200 N
CO 50-Y2	50 kg/500 N
CO 100-Y2	100 kg/1 kN
CO 200-Y2	200 kg/2 kN
CO 500-Y2	500 kg/5 kN
CO 1000-Y2	1000 kg/10 kN
CO 2000-Y2	2000 kg/20 kN
CO 5-Y3	5 kg/50 N
CO 10-Y3	10 kg/100 N
CO 5-Y4	5 kg/50 N
CO 10-Y4	10 kg/100 N

** up to 500 kg/5 kN

SAUTER	Nominal load
CO 0.5-Y5	0,5 kg/5 N
CO 1-Y5	1 kg/10 N
CO 5-Y5	5 kg/50 N
CO 10-Y5	10 kg/100 N

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, mea-suring cells, measuring instruments etc.) and a control unit (controller). Especially advantageous when exchanging complex measured values, device, diagnostic and process in-formation. Savings potential through shorter commis-sioning 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 measure-ment 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 opera-tion. 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 synchro-nous 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 prepara-tions is shown in days in the pictogram

Pallet shipment
The time required for internal shipping prepara-tions is shown in days in the pictogram