NEW

CS Y1

CO Y1

CO Y2/CO Y3

CO Y4

CS Y1

Miniature “S” measuring cells/load cells made of stainless steel

STANDARD: IP 65 · 1 DAY — OPTION: ISO +4 DAYS

- 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 benches, handing scales, silo scales and other diverse scales
- Nominal sensitivity: 1,3 – 2 mV/V, depending on nominal load

Model 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	

CO Y1 – Y4

Miniature button-type measuring cells made of stainless steel

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

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 benches
- 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 benches
- Nominal sensitivity: 1,5 – 2 mV/V, depending on nominal load

Model 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

CO Y5

Tension and compression load cells made of stainless steel

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

- 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 profile
- Suitable for test benches, 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

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

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

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