# **SAUTER CATALOGUE 2022**

# Messzellen SAUTER CS Y1 · CO Y1-Y4 · CO Y5







SAUTER

NEW

# CSY1

# Miniature "S" measuring cells/load cells made of stainless steel



- 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





# CO Y1/CO Y4:

CO Y1 - Y4

STANDARD

- · 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

СО	Y5

Tension and compression load cells made of stainless steel



- 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	Nominal load	
SAUTER		
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	

Model	Nominal load	
0411750		
SAUTER		
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	

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

\*\* up to 500 kg/5 kN

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### 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



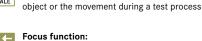
Scan mode: Continuous capture and display of measurements



The measuring device can capture tension and compression forces



Length measurement: Captures the geometric dimensions of a test



Increases the measuring accuracy of a device within a defined measuring range



FOCUS

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:

Your KERN specialist dealer:

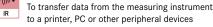
To transfer data from the balance/measuring instrument to a printer, PC or other peripherals



## WLAN data interface:

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

### Data interface Infrared: • (((() •



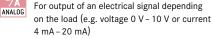


Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.



To connect a suitable peripheral device for ANALOG analogue processing of the measurements

# Analog output:



Statistics:

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



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



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: GLP

Of measurement data with date, time and PRINTER serial number. Only with SAUTER printers

### Measuring units:

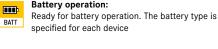
 ${\mathcal C}$ Weighing units can be switched to e.g. non-metric. UNIT Please refer to website for more details



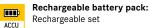
Measuring with tolerance range (limit-setting function):

Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model

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ZERO:



Rechargeable set

Resets the display to "0"

<u> </u>
230 V

666

IP

+04

ZERO

Plug-in power supply:

230V/50Hz in standard version for EU. On request GB, AUS or USA version available

SAUTER

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



Integrated power supply unit:

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



The mechanical movement is carried ELECTRO out by a electric motor

# Motorised drive:

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



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 +3 DAYS

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



Factory calibration:



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

+4 DAYS specified in the pictogram

The time required for factory calibration is