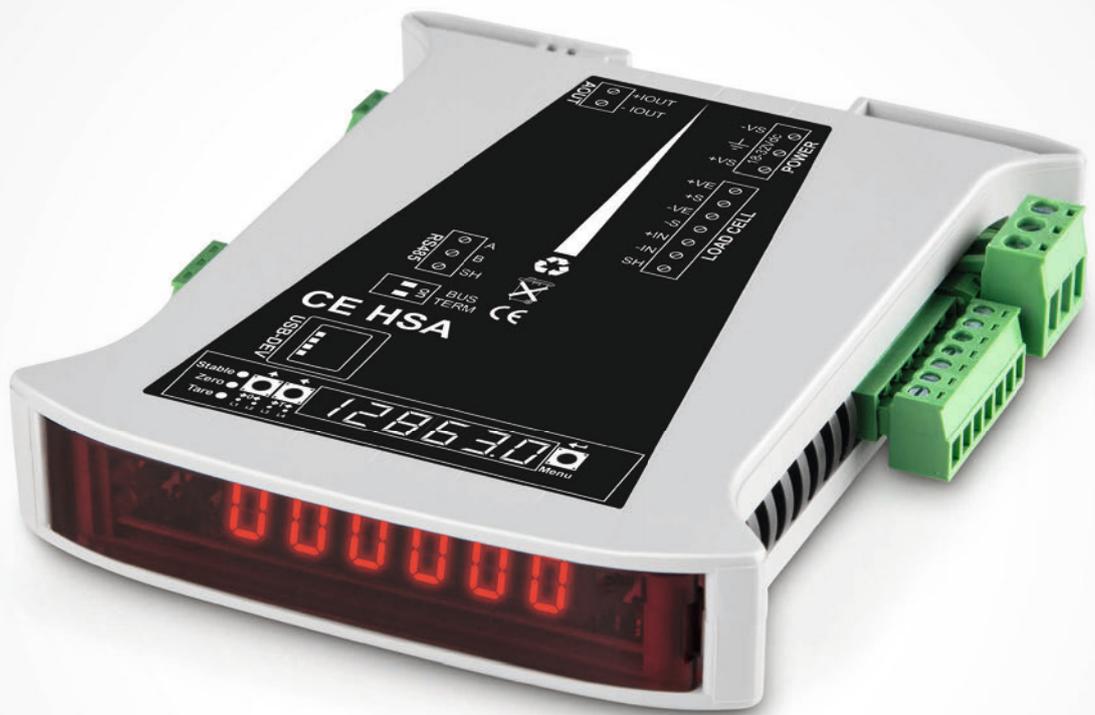


SYSTEM SOLUTIONS INDUSTRY 4.0, DISPLAY DEVICES

Industry | Laboratory | Quality Assurance



PROFESSIONAL MEASURING 

2025

SAUTER 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 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



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 an 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

SAUTER Models A-Z

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AFH FAST	35
AFH FD/AFH LD	36
AFI 2.0	37

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TN-GOLD	52
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TVO	25
TVO-S/-LD	26-27
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TVS/-LD	30-31

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SAUTER Customer Consultants

With questions about our products and services, we will be happy to advise you:

Product Specialist Measuring Technology



Irmgard Russo
Tel. +49 7433 9933-208
info.sauter@kern-sohn.com

PL, LV, LT, EE, SK, CZ, HU



Mark Hauder
Tel. +49 7433 9933-310
Mobil +49 160 3378426
mark.hauder@kern-sohn.com

Product Specialist Measuring Technology



Helga Biselli
Tel. +49 7433 9933-188
info.sauter@kern-sohn.com

SL, HR, AL, MK, BG, BA, ME, RO, GR, CY, GUS



Ariana Sevcenco
Tel. +49 7433 9933-203
Mobil +49 151 72434692
ariana.sevcenco@kern-sohn.com

Product Specialist Measuring Technology



Andreas Vossler
Tel. +49 7433 9933-243
info.sauter@kern-sohn.com

North America, Africa, Asia, Middle East, Oceania, TR



Corinna Matthes
Tel. +49 7433 9933-215
Mobil +49 151 44568364
corinna.matthes@kern-sohn.com

UK, BE, IRE, IS, LUX, NL



Maren Neff
Tel. +49 7433 9933-132
Mobil +49 151 46143240
maren.neff@kern-sohn.com

Category Manager Industrial Measuring Technology



Michael Stingel
Tel. +49 7433 9933-293
michael.stingel@kern-sohn.com

Sales & Marketing Manager



Stephan Ade
Tel. +49 7433 9933-121
Mobil +49 171 3060086
ade@kern-sohn.com

SAUTER Hotlines



Technical questions about our products?

You will find assistance here quickly: +49 7433 9933 - ...

Service Hotline

for general technical questions about your SAUTER product

→ 199

SAUTER Measuring Instruments

for all technical questions concerning our SAUTER measuring instruments, test benches, force measuring accessories (clamps etc.), SAUTER software

→ 555

Industrial Scales

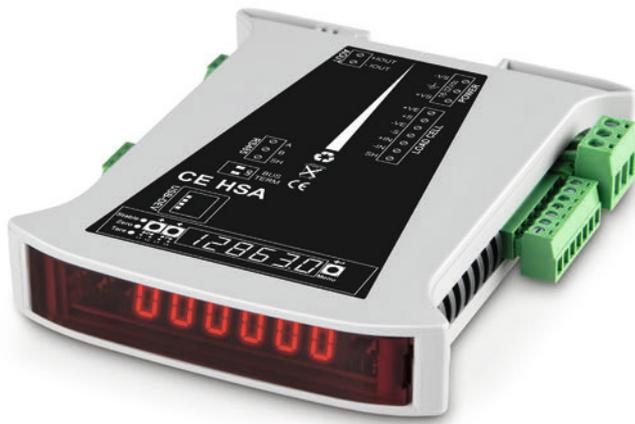
for all technical questions concerning our basic scales (laboratory & industry), pocket balances, school balances, bench scales, price-computing scales, platform scales, counting scales, counting systems, floor scales, pallet truck scales, crane scales, veterinary scales

→ 333

System Solutions Industry 4.0

for all technical questions concerning the interlocking of the latest information and communication technology with our scales, load cells and measuring devices as well as questions about KERN software

→ 200



Compact display device (rail-mounted module) for installation in switch cabinets

Features

- Compact display unit for recording weighing data using strain gauge load cells
- It is particularly space-saving to install in switch cabinets
- Thanks to the many interface variants, the modules can be ideally integrated into existing infrastructures and systems
- The modules can be used either individually or as a Buslink system with a total of up to 332 DIN rail modules
- Configuration of the module conveniently via a connected PC with the suitable software (Download see *Internet*)
- Bright LED display for optical control and settings
- Time-saving G-Cal™ (Geographic Calibration) technology for fast and accurate calibration without weights conveniently over a network or the Internet worldwide

- Convenient communication via remote devices
- Backup and restore function via USB port
- Can handle various industrial protocols such as Ethernet IP, Modbus TCP, Modbus RTU, FINS, PROFIBUS DP and PROFINET (according to model)
- Extremely high measurement frequency possible, up to 1600 data records/second
- Internal resolution 24 Bit

Technical data

- 7 segment LED display, digit height 7,62 mm
- Dimensions W×D×H 120×101×23 mm
- Power supply 18-32 Vdc; 4 W max.
- Power supply load cell 5 Vdc
- Sensitivity 0,1 μV/d
- Adjustable nominal sensitivity 1; 1.5; 2; 2.5; 3 mV/V
- Input voltage unipolar @3mV/V: -1 mV to + 16 mV
- Input voltage bipolar @3mV/V: -16 mV to +16 mV

- Max. load cell impedance 1200 Ω
- Min. load cell impedance 43,75 Ω
- Max. no. of load cells 350 Ω: 8
- Max. no. of load cells 1000 Ω: 22
- Max. resolution d 10.000
- Display steps 1, 2, 5, 10, 20, 50, 100, 200
- Permissible ambient temperature -10 °C/40 °C

Accessories

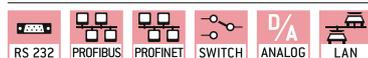
- Mains adapter for voltage supply to the KERN CE, can be fitted on the DIN rail, KERN CE HSS, **€ 90,-**
- Large display with superior display size, KERN YKD-A02, **€ 310,-**
- For further accessories, such as load and load cells, torque sensors and weighing platforms (strain gauge based only) from the SAUTER and KERN range, see *internet*
- Further accessories such as DIN rail, housing as well as individual assembly, configuration, adjustment, etc. on request

Note: Models optionally also available verified, please enquire

STANDARD



OPTION



Model	Communication Interfaces	Digital I/O	Analog output	Price excl. of VAT ex works €
SAUTER				
CE HSAIO*	USB	3 input / 4 output	0/4-20/24 mA	920,-
CE HSP*	USB, PROFIBUS	3 input / 4 output	-	590,-
CE HSR*	USB, RS-232, RS-422	3 input / 4 output	-	560,-
CE HSN	USB, PROFINET	3 input / 4 output	-	830,-

* ONLY WHILE STOCKS LAST



Analogue weighing transmitter to amplify the DMS signal with current or voltage output (depending on model)

Features

- Output signal voltage or current
- Suitable for transfer to SPS, analogue measuring card etc.
- Integrated overvoltage protection
- Polarity reversal protection at the input and protection of the output
- CE WT1-Y4 and CE WT2-Y4: up to 4 sensors connectable without junction box
- Scope of delivery: weighing transmitter, connection plug for sensor, cable incl. plug for output signal and power supply
- 12V DC or 24V DC voltage source (depending on model) required (e.g. for 24V voltage source CE is HSS compatible)
- Compatible with all analogue SAUTER load cells and analogue KERN weighing platforms

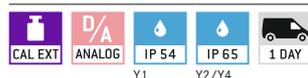
Technical data

- Measuring range 0 - 20 mV
- Accuracy: $\leq \pm 0.1\%$ F.S.
- Ambient temperature: -20 to +85 °C
- Overall dimensions WxDxH
 CE WTY1: 110x45x32 mm, see larger picture
1 CE WTY2: 110x45x32 mm
2 CE WTY4: 110x45x32 mm

Accessories

- Mains adapter for power supply of the KERN CE (only for models with 24 V), KERN CE HSS, **€ 90,-**

STANDARD



Model	Sensor connections	Supply voltage	Output signal	Housing	Class of protection	Net weight approx.	Price excl. of VAT ex works
						kg	€
SAUTER							
CE WT1-Y1	1	12V	analogue (4 - 20 mA)	Steel plate	IP54	0,25	175,-
CE WT2-Y1	1	24V	analogue (4 - 20 mA)	Steel plate	IP54	0,25	175,-
CE WT3-Y1	1	12V	analogue (0 +/-5V)	Steel plate	IP54	0,25	175,-
CE WT4-Y1	1	24V	analogue (0 +/-5V)	Steel plate	IP54	0,25	175,-
CE WT1-Y2	1	12V	analogue (4 - 20 mA)	Aluminium	IP65	0,50	270,-
CE WT2-Y2	1	24V	analogue (4 - 20 mA)	Aluminium	IP65	0,50	270,-
CE WT1-Y4	4	12V	analogue (4 - 20 mA)	Aluminium	IP65	0,85	350,-
CE WT2-Y4	4	24V	analogue (4 - 20 mA)	Aluminium	IP65	0,85	350,-

1 ONLY WHILE STOCKS LAST

The oldest Precision Balance Factory in Germany

SAUTER GmbH

c/o KERN & SOHN GmbH

Ziegelei 1
72336 Balingen
Germany
Tel. +49 7433 9933-0
info@sauter.eu
www.kern-sohn.com

Discover the multifaceted World of Balances and Measuring Technology from SAUTER online: www.kern-sohn.com

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- Technical Product Data Sheets
- Operating Instructions
- Descriptive Image and Video Material
- Useful KERN Services
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- KERN Dealer Portal
- Practical Filter and Search Functions



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