



SYSTEM SOLUTIONS INDUSTRY 4.0, DISPLAY DEVICES

FORCE MEASUREMENT

Load cell + SAUTER FL + Software



BALANCE MANUFACTURE

Load cell + KERN YKV +
KERN Software BalanceConnection



BALANCE MANUFACTURE

Load cell + Junction Box + KERN YKV



BALANCE CONSTRUCTION

Load cell + Evaluation device



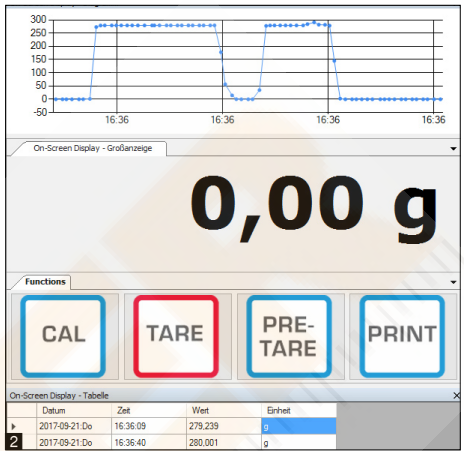
BALANCE

MANUFACTURE

Load cell + Junction Box
+ evaluation device




We help to interlink industrial production with state-of-the-art information and communication technology with the aim of increasing quality, using costs, time and resources more efficiently and being able to react more flexibly to the demands of the future. You can benefit from our standardized data protocols in conjunction with our BalanceConnection 4.0 data software, for details see Internet.



Modern digital weighing transmitter for the rapid recording of weighing data and forwarding it to the most varied output channels such as tablets, networks, SPS controllers, etc. – ideal for operating balances in systems or conveyors

Features


- With this digital weighing transmitter your weighing processes are ready for the requirements of Industry 4.0. Simply connect a weighing platform or measuring cell, integrate the digital weighing transmitter into the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard, Power supply via USB interface
- Transfer formats are freely configurable
- Functions: Weighing, taring
- Measuring frequency 10 Hz
- Easy configuration using the software supplied
- Robust plastic die-cast housing
-  Suitable for wall mounting and DIN track mount
- Compatible with all KERN weighing platforms

- Included with the delivery:
 - Digital weighing transmitter KERN YKV
 - USB cable incl. mains plug
 - DIN rail mounting bracket
 - Configuration software for adjusting and managing, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, SAP, Oracle etc.

Technical data

- Overall dimensions W×D×H 100×140×36 mm
- Net weight approx. 0,35 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Bluetooth data interface, KERN YKV-A02
- WiFi interface, KERN YKV-A01
-  Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0

STANDARD										FACTORY	
											

Model	Standard interfaces
KERN	
YKV-01	RS-232, USB
YKV-02	RS-232, USB, Ethernet



Features

- Compact display unit for recording weighing data using strain gauge load cells, e.g. in industrial applications
- Due to its small size, 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
- The configuration of the module can be carried out 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/s
- Internal resolution 24 Bit











Technical data

- 7 segment LED display, digit height 7,62 mm
- Dimensions W×D×H 120×101×23 mm
- Permissible ambient temperature -10 °C / 40 °C
- Power supply 18-32 Vdc; 4 W max.
- Power supply load cell 5 Vdc
- Sensitivity 0,1 $\mu\text{V/d}$
- 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

Accessories

- Mains adapter for voltage supply to the KERN CE, can be fitted on the DIN rail, KERN CE HSS
- Large display with superior display size, KERN YKD-A02
- 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

STANDARD				OPTION					
									
CAL EXT	USB	UNIT	1 DAY	RS 232	PROFIBUS	PROFINET	SWITCH	ANALOG	LAN

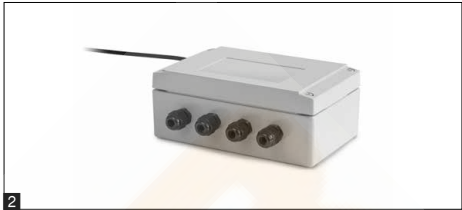
Note: Models optionally also available verified, please enquire

Model	Communication Interfaces	Digital I/O	Analogue output
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KERN

CE HSA*	USB	-	0/4-20/24 mA
CE HSAIO*	USB	3 input/4 output	0/4-20/24 mA
CE HSE*	USB, Ethernet	3 input/4 output	-
CE HSP*	USB, PROFIBUS	3 input/4 output	-
CE HSR*	USB, RS-232, RS-422	3 input/4 output	-
CE HSN	USB, PROFIBUS	3 input/4 output	-

! * 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 W×D×H

CE WTY1: 110×45×32 mm, see larger picture

1 CE WTY2: 110×45×32 mm

2 CE WTY4: 110×45×32 mm

Accessories

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

STANDARD

CAL EXT

D/A

IP 54

IP 65

1 DAY

Y1Y2/Y4

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