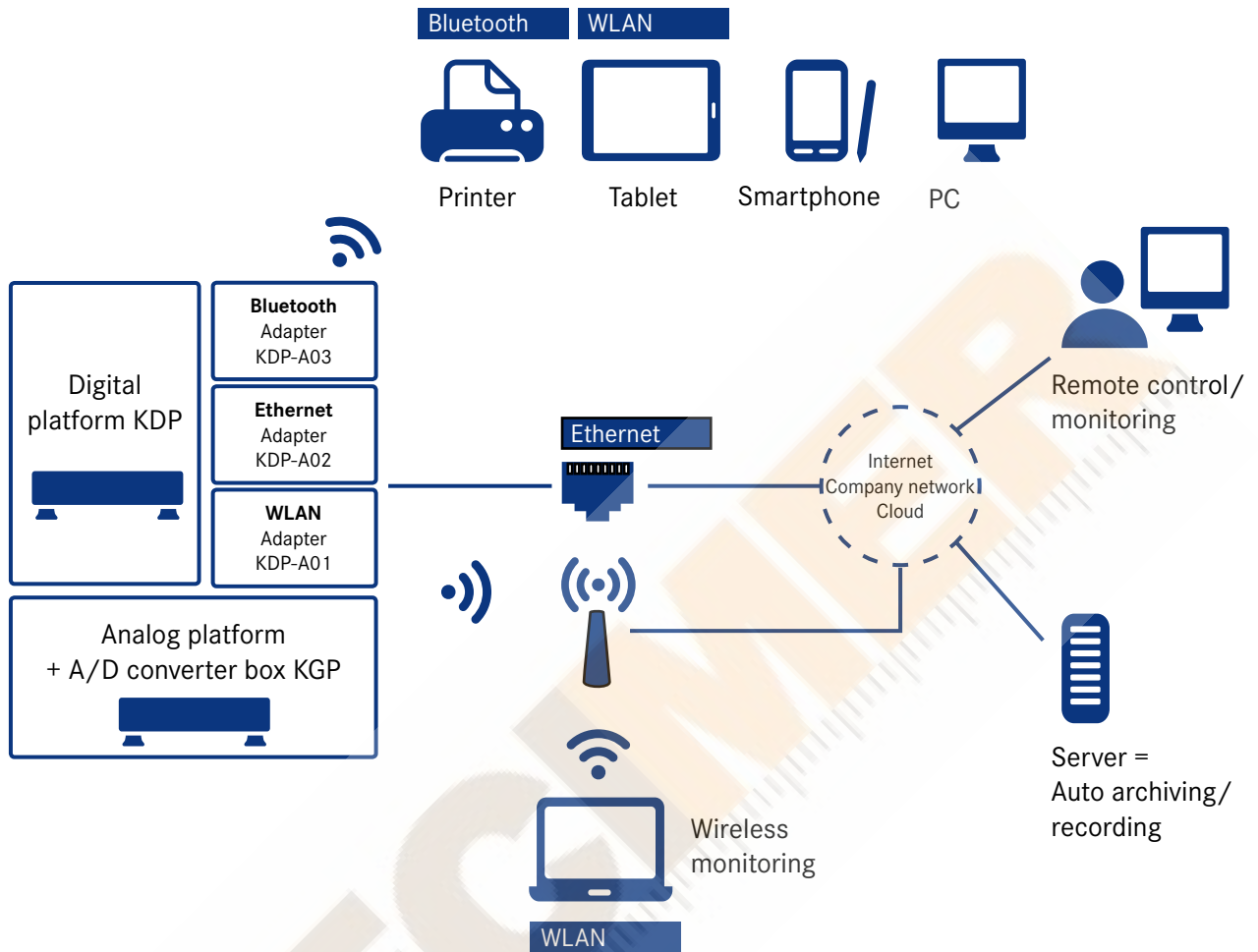


01

System solutions Industry 4.0



We will help to combine industrial production with the latest information and communication technology, with the aim of improving quality, reducing costs and using time and resources more efficiently so that you are able to react to future requirements in a more flexible manner. You will benefit from our uniform data protocol combined with our BalanceConnection 4.0 data software, for details please see page 13/14.

The KERN team in our centre of expertise – Industry 4.0



Daniel Egeler



Edgar Litti



Markus Reinke

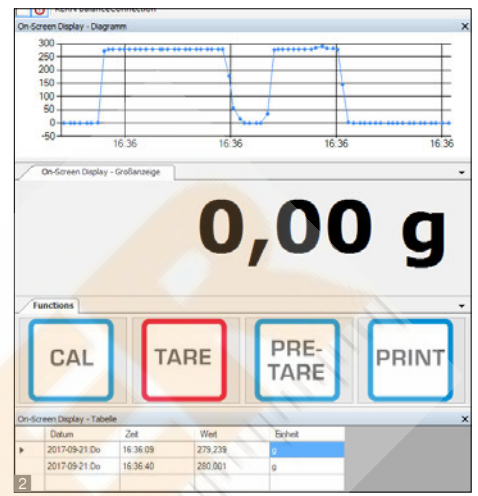
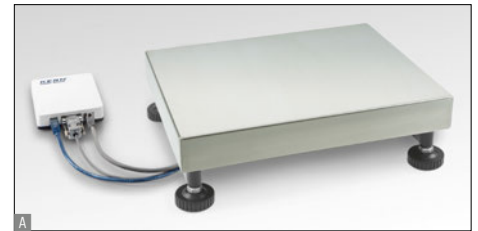


Max Matthes



Stefan Rothmund

- We would like to inform you and advise you



Robust industrial platform scale with A/D converter box, ideal for varied range of applications for Industry 4.0

Features

- With this combination of **1 platform (KERN KFP V20 IP65) and A/D converter box (KERN YKV-01)** your weighing processes are ready for the requirements of Industry 4.0. Simply install the platform, connect the A/D converter box to the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard
- Transfer formats are freely configurable
- Many interface variants available
WiFi data interface, KERN YKV-01
Bluetooth data interface, KERN YKV-02
Other interfaces on request. A/D converter box with standard Ethernet data interface on request
- Functions: Weighing, taring

- Internal resolution 16 million divisions
- Measurement frequency 10 Mz
- Easy configuration using the software supplied
- KERN YKV-01: Robust plastic die-cast housing
- KERN YKV-01: Suitable for wall mounting and DIN track mount
- Included with delivery:
 - Industrial platform KERN KFP
 - A/D converter box KERN YKV-01
 - **2** Configuration software for adjusting and managing the KERN KDP, 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, e.g. SAP, Oracle etc.

Technical Data

- Weighing plate material stainless steel
- KERN YKV-01: Overall dimensions W×D×H 100×127×28 mm
- Permissible ambient temperature -10 °C/ 40 °C

Accessories

- **Software BalanceConnection**, flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access 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, e.g. SAP, Oracle etc., for details see page 12, KERN SCD-4.0

STANDARD

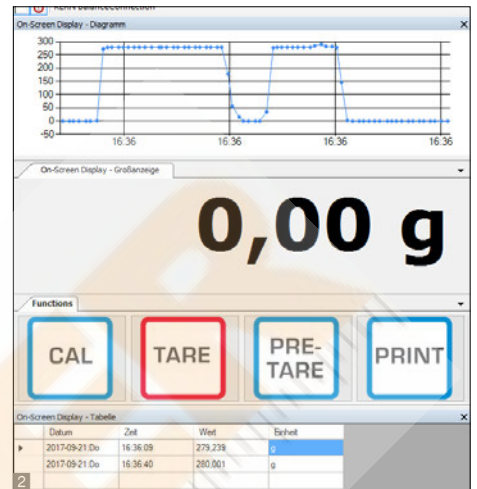
CAL EXT RS 232 USB KCP PROTOCOL UNIT IP 65 DMS 1 DAY

OPTION FACTORY

DAKkS +3 DAYS BT 4.0 WLAN

Model	Weighing capacity [Max] kg	Read-out [d] g	Weighing plate mm	Cable length m	Net weight approx. kg	Options	
						DAKkS Calibr. Certificate	
KERN						DAKkS KERN	
KGP 6K-4	6	0,2	300×240×120	3	6	963-128	
KGP 6K-4L	6	0,2	400×300×128	3	10	963-128	
KGP 10K-4	15	0,5	300×240×120	3	6	963-128	
KGP 10K-4L	15	0,5	400×300×128	3	10	963-128	
KGP 30K-3	30	1	300×240×120	3	6	963-128	
KGP 30K-3L	30	1	400×300×128	3	10	963-128	
KGP 60K-3	60	2	400×300×128	3	10	963-129	
KGP 60K-3L	60	2	500×400×137	3	13	963-129	
KGP 100K-3	150	5	500×400×137	3	14	963-129	
KGP 100K-3L	150	5	650×500×142	3	22	963-129	
KGP 300K-2L	300	10	650×500×142	3	22	963-129	

NEW



Modern A/D converter 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 A/D converter box your weighing processes are ready for the requirements of Industry 4.0. Simply connect a weighing platform or measuring cell, integrate the A/D converter box into the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard
- Transfer formats are freely configurable
- Many interface variants available
- WiFi data interface, KERN YKV-01
- Bluetooth data interface, KERN YKV-02
- Other interfaces on request. A/D converter box with standard Ethernet data interface on request
- Functions: Weighing, taring
- Internal resolution 16 million divisions
- Measuring frequency 10 Hz
- Easy configuration using the software supplied

- Robust plastic die-cast housing
- 1 Suitable for wall mounting and DIN track mount
- Compatible with all KERN weighing platforms
- Included with delivery:
 - Industrial platform KERN KFP
 - A/D converter box KERN YKV-01
 - 2 Configuration software for adjusting and managing the KERN KDP, 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, e.g. SAP, Oracle etc.

KERN YKV-01

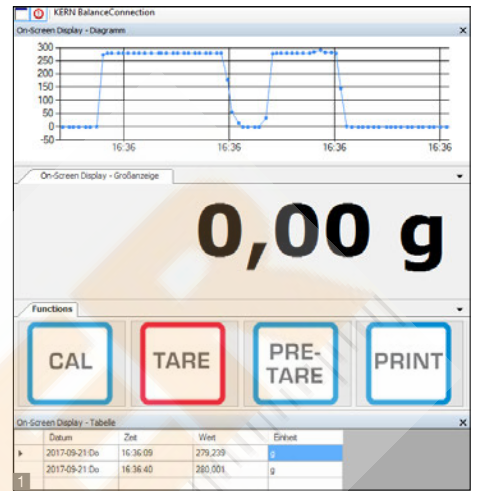
Technical Data

- Overall dimensions W×D×H 100×127×28 mm
- Net weight approx. 1,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Software BalanceConnection**, flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access 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, e.g. SAP, Oracle etc., for details see page 12, KERN SCD-4.0

STANDARD						FACTORY		
CAL EXT	RS 232	USB	KCP PROTOCOL	GLP PRINTER	UNIT	1 DAY	WLAN	BT 4.0



Universal weighing platforms for flexible connection into process chains

Features

- Industry 4.0 process chains: these weighing platforms can be easily integrated into your process chain. All recorded values can be easily transferred and processed further in your system as digital data and data that has already been compared using the many interfaces available. This saves cost, time and resources and ensures even more effective working
- Connecting the balance with a tablet or PC offers the advantage of being able to use the apps and programs which are on that device. These apps and programs are usually already tailored to your needs, are easy and convenient to use and can often be expanded as needed. This offers you the maximum level of flexibility when displaying, processing and saving the recorded weighing data
- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall

and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **Draught shield** standard for models with weighing plate size **A**, weighing space W×D×H 146×146×80 mm
- Included with delivery:
 - **Software BalanceConnection** for adjusting and managing the KERN KDP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs

Technical Data

- Dimensions weighing surface
 - A** Ø 105 mm
 - B** WxD 160×160 mm, see larger picture
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B** stainless steel
- Overall dimensions W×D×H 165×166×75 mm (without draught shield)
- Cable length approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KDP-A03
- **WiFi interface** for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, please ask for delivery time, KERN KDP-A01

STANDARD						OPTION		FACTORY	
CAL EXT	USB	KCP PROTOCOL	MULTI	DMS	1 DAY	DAkkS +3 DAYS	BT 4.0	WLAN	

Model	Weighing capacity [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Weighing plate mm	Options	
						DAkkS Calibr. Certificate	
						DAkkS KERN	
KDP 300-3	350	0,001	0,002	± 0,005	A	963-127	
KDP 3000-2	3500	0,01	0,02	± 0,05	B	963-127	
KDP 10K-4	10000	0,1	0,1	± 0,3	B	963-128	
KDP 10K-3	10000	1	1	± 3	B	963-128	