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Operating and Installation Instructions Digital weighing platform

KERN KDP

Version 1.2 2020-10 GB





KDP-BA_IA-e-2012



KERN KDP

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1 Technical data

KERN (type)	KDP 300-3 KDP 3000-2				
Item number/type	TKDP 300-3-A	TKDP 3000-2-A			
Readability (d)	0.001 g	0.01 g			
Weighing range (max)	350 g	3.5 kg			
Reproducibility	0.002 g	0.02 g			
Linearity	± 0.005 g	± 0.05 g			
Recommended adjusting weight not supplied (class)	350 g (F1)	3 kg (F1)			
Warm-up time	120 min	120 min			
Net weight (kg)	1,2	1,6			
Glass wind screen	yes	no			
Dimensions fully mounted (W x D x H) mm	165 x 166 x 140 mm	165 x 166 x 75 mm			
Dimensions (W x D x H)	outside: 157 x 157 x 80	-			
mm	inside: 146 x 146 x 80	-			
Weighing surface, stainless steel	105 mm	165 x 165 mm			
Permissible ambient condition	+5° C to) +35° C			
Humidity of air	80 % relative (r	not condensing)			
Electric Supply	U	SB			
Interfaces	USB-Host/Mas	ster (Standard)			
	WLAN (factory optic	on; KERN KDP-A01)			
	Ethernet (factory opti	ion; KERN KDP-A02)			
	Bluetooth 4.0 (factory option; KERN KDP-A03)				

KERN (type)	KDP 10K-3	KDP 10K-4		
Item number/type	TKDP 10K-3-A	TKDP 10K-4-A		
Readability (d)	1 g	0.1 g		
Weighing range (max)	10 kg	10 kg		
Reproducibility	1 g	0.1 g		
Linearity	3 g	0.3 g		
Recommended adjusting weight not supplied (class)	10 kg (M1)	10 kg (F1)		
Warm-up time	30 min	120 min		
Net weight (kg)	1.4	1.4		
Glass wind screen	no			
Dimensions fully mounted (W x D x H) mm	165 x 166	x 75 mm		
Weighing surface, stainless steel	165 x 10	65 mm		
Permissible ambient condition	+5° C to	9 +35° C		
Humidity of air	80 % relative (r	not condensing)		
Electric Supply	US	SB		
Interfaces	USB-Host/Mas	ster (Standard)		
	WLAN (factory optic	on; KERN KDP-A01)		
	Ethernet (factory opti	on; KERN KDP-A02)		
	Bluetooth 4.0 (factory o	ption; KERN KDP-A03)		

2 Declaration of conformity

The current EC/EU Conformity declaration can be found online in:



3 Appliance overview





- 1 Glass wind screen
- 2 Weighing plate
- 3 Footscrews
- 4 Connections
- 5 Spirit level (for models $d \ge 0.01$ g under the weighing plate)

4 Basic Information (General)

4.1 Proper use

The weighing platform you purchased is intended to determine the weight value of material to be weighed. It is intended to be used as a "non-automatic weighing system", i.e. the material to be weighed is manually and carefully placed in the centre of the weighing plate. As soon as a stable weight value is reached the weight value can be read.

4.2 Improper Use

Do not use the digital weighing platform for dynamic weighing. In the event that small quantities are removed or added to the material to be weighed, incorrect weighing results can be displayed due to the "stability compensation" in the display unit. (Example: Slowly draining fluids from a container on the balance.)

Do not leave permanent load on the weighing plate. This may damage the measuring system.

Impacts and overloading exceeding the stated maximum load (max) of the weighing plate, minus a possibly existing tare load, must be strictly avoided. This may damage the weighing plate or the digital weighing platform.

The digital weighing platform should never be operated in area where there is a risk of explosion. The serial version is not explosion protected.

The construction of the digital weighing platform may not be changed. This may lead to incorrect weighing results, safety-related faults and destruction of the display unit.

The digital weighing platform may only be used as specified here. Other areas of use must be released by KERN in writing.

4.3 Warranty

Warranty claims shall be voided in case

- Our conditions in the operation manual are ignored
- The appliance is used outside the described uses
- The appliance is modified or opened
- Mechanical damage or damage by media, liquids, natural wear and tear
- The appliance is improperly set up or incorrectly electrically connected
- The measuring system is overloaded

4.4 Monitoring of Test Resources

In the framework of quality assurance the measuring-related properties of the digital platform and, if applicable, the testing weight, must be checked regularly. The responsible user must define a suitable interval as well as type and scope of this test. Information is available on KERN's home page (www.kern-sohn.com with regard to the monitoring of display units' test substances and the test weights required for this. In KERN's accredited DKD calibration laboratory test weights and digital weighing platforms may be calibrated (return to the national standard) fast and at moderate cost.

5 Basic Safety Precautions

5.1 Pay attention to the instructions in the Operation Manual



Carefully read this operation manual before setup and commissioning, even if you are already familiar with KERN balances.

5.2 Personnel training

The appliance may only be operated and maintained by trained personnel.

6 Transport and storage

6.1 Testing upon acceptance

When receiving the appliance, please check packaging immediately, and the appliance itself when unpacking for possible visible damage.

6.2 Packaging / return transport



- ⇒ Keep all parts of the original packaging for a possibly required return.
- ⇒ Only use original packaging for returning.
- ⇒ Prior to dispatch disconnect all cables and remove loose/mobile parts.
- ⇒ Reattach possibly supplied transport securing devices.
- ⇒ Secure all parts such as the glass wind screen, the weighing plate, power unit etc. against shifting and damage.

7 Unpacking and placing

7.1 Installation Site, Location of Use

The digital weighing platforms are designed in a way that reliable weighing results are achieved in common conditions of use.

Precise and fast work is achieved by selecting the right place for your digital weighing platform and your weighing plate.

On the installation site observe the following:

- Place the weighing platform on a firm, level surface;
- Avoid extreme heat as well as temperature fluctuation caused by installing next to a radiator or in the direct sunlight;
- Protect the digital weighing platform from direct draughts from open windows and doors;
- Avoid jarring during weighing;
- Protect the digital weighing platform from high air humidity, fumes and dust;
- Do not expose the digital weighing platform to strong humidity for extended periods. Non-permitted condensation (condensation of air humidity on the appliance) may occur if a cold appliance is taken to a considerably warmer environment. In this case, acclimatize the disconnected appliance for ca. 2 hours at room temperature.
- Avoid static charge of goods to be weighed or weighing container.

Major display deviations (incorrect weighing results) may be experienced should electromagnetic fields (e.g. due to mobile phones or radio equipment), static electricity accumulations or instable power supply occur. Change location or remove source of interference.

7.2 Unpacking and checking

Take the digital weighing platform out of the packaging, remove the packaging material and install at the designated workstation. Check if that there has been no damage and that all packing items are present.

Scope of delivery / serial accessories:

- Digital weighing platform, see chapter. 3
- Mains adapter
- USB A to USB B cable
- These installation instructions
- Description of interfaces (KCP-ZB)
- KERN BalanceConnection software (online operating instructions)

7.3 Assembly and installation

The correct location is a key factor in the accuracy of the weighing results.

⇒ Levelling

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Exact alignment and stable installation are an essential requirement for repeatable results. You can compensate for minor unevenness or tilts of the footprint by levelling the weighing balance.

Level balance with foot screws until the air bubble of the water balance is in the prescribed circle.

Check levelling regularly.

- ⇒ Installation of weighing plate
- ➡ Connection to the power supply (USB) using the enclosed power pack or the USB host (e.g. computer)
- In order to obtain exact results with the electronic balances, the digital weighing platform must have reached the operating temperature (see warming up time chap. 1). The digital weighing platform must be connected to the power supply during this warming up period. The accuracy of the digital weighing platform is dependent on the local acceleration due to gravity.

Strictly observe hints in chapter Adjustment.

- ⇒ Connection to your system (configuration) as described in the chapter 8
- ⇒ Carry out adjustment as described in the chapter 9
- Communication and using the balance via the interface protocol (see interface protocol description)
- The chapter 10.1 describes the ideal way to use the balance using the BalanceConnection software.

8 Connection to your system

The digital weighing platform is configured and operated using the **KCP** communication protocol and the built-in interfaces. KCP is described in the additional KCP-ZB interface description (enclosed and available online). The following sections describe how to connect the weighing platform to your system using your preferred communications interface.

• KCP (KERN Communications Protocol):

KCP is a standardized set of interface commands for KERN balances and other appliances, which allows all of the relevant parameters and functions to be called up and controlled. KERN devices that have KCP can use it to connect easily to computers, industrial control systems and other digital systems.

8.1 USB

Connect the device to the host computer using the enclosed USB cable. It will be recognized as a virtual COM port and will be assigned a corresponding numbered connection.

Example (Microsoft Windows Device Manager):

Anschlüsse (COM & LPT)
 com0com - serial port e
 com0com - serial port e
 USB Serial Port (COM3)
 USB Serial Port (COM5)

In modern devices the USB driver required for the weighing platform has already been pre-installed. If the system is not recognized automatically, you can obtain the correct driver from the Downloads area at <u>http://www.kern-sohn.com</u>.

8.2 Bluetooth

The weighing platform is optionally available with **Bluetooth Low Energy** (BLE) and will then be visible to Bluetooth Master devices using its serial number.

To access this, please use an appropriate software programme / app which supports Bluetooth Low Energy (BLE). Applications using Bluetooth Classic (BLC) will not work.

8.3 Ethernet

The weighing platform's factory setting uses DHCP, i.e. it connects automatically to your network. The system can communicate using the UDP protocol (Port 187) and also the Telnet protocol (Port 23).

To request and configure the weighing platform's IP address, connect it to the computer using the USB cable (see "USB" chapter) and use the following commands to request or set the network configuration, in this example with KERN BalanceConnection:

8.3.1 Read-out the IP address

Download the KERN BalanceConnection:

https://www.kern-sohn.com/de/Balance%20Connection

If this message appears:



it is recommended to download and to install the KERN BalanceConnection as a zip-file.

If this window appears, click "Nevertheless execute":



In the start screen of KERN BalanceConnection select the so-called "Expert mode".

Click the symbol **set and a symbol** right below:

	KERN BalanceC	Connection	_ X
CAnwendung auswähler	۱	_ Waage	1
Ziehen Sie das S Fenster der Anwe übertragen woller Maustaste wieder Suchwerk	uchwerkzeug über das ndung, in die Sie Daten nund lassen Sie die linke r los. zeug:	Ändern Verwalten Modell: 440	
Ausgewählte Au	nwendung	Z Daten formatiert übertragen	-
Fenstertext	a a		~
	er -	Datenübertragung	
COM Anschluß:	~ *	✓ Wert 📃 Dezimalpunkt	
Bits pro Sekunde:	9600 ~	✓ Makro (TAB) ✓ Einheit	
Datenbits:	8 ~	✓ Makro <u>{ENTER}</u>	Î
Parität	kein 🗸	Makro (TAB)	Ē
Stopbits:	1 ~	☐ Zeit ☐ Makro (ENTER)	- a
Protokoll:	keiner ~	☑ Signalton bei Datenempfang	
		 ♦ O Taste F2 Instabile Instabile Tariere 	r Wert er Wert n



Add the weighing platform in expert mode. For this purpose click "Add device":

A list of the available devices appears. In this list select "KDP" and right above click "Import". The weighing platform has now been added.

🖳 Gerätemodelle	9				\times
🕂 🕂 Gerätetyp hin	zufügen 🧭 📝]		Überneh	men 🗹
Modellname	Schnittstellen	Protokoll	Operationen		^
IXS-NM	RS232	IXS-NM			
KB 6000-1, KB 6	RS232	KB 6000-1,			
KB 6500-1NM, K	RS232	KB 6500-1N			
KB-N	RS232	KB-N			
KDE	RS232	KDE			
KDP	IP/Ethernet				
KEN	RS232, IP/Ether	KEN-TM			
KFB-TAM	RS232	KFB-TAM			
KFB-TM	RS232	KFB-TM			
KFN-TAM	RS232	KFN-TAM			- 14
KFS-TM	RS232	KFS-TM			
KFT-TM	RS232, IP/Ether	KFT-TM			
KGP	RS232, IP/Ether	KGP			
KIB	RS232, IP/Ether	KIB-TM			
KXS-N	RS232	KXS-TNM			
MCB-NM	RS232	MCB 300K1			
MLB-C	RS232	N/A			
MLS-C	RS232	MLS 50-3C			
MLS-D	RS232	MLS-D			
MPC	RS232	MPC 300K			
MPC-L	RS232	MPC 300K			
MPC-NM	RS232	MPC 250K1			~
<					>

After having selected the device from the list, the following window opens automatically:

In the window "KDP-properties" fill-out the fields accordingly and below right click the field "Import".

	Schnittst	ellen	Operationen	Protokoll		
Device II	D:	f2979	cc1.fc8d-4fbf-	9d14-d45d38	Bde47c1	
Beschreib	oung:					
Modell-/S	Serie:	KDP				
Seriennur	mmer:					
Inventam	ummer:					
Sonstige	Variablen:					
	Name		Value			
•				_		

"KDP" is now displayed.

As next click the corresponding COM-Port below in the window "Interfaces" and activate this port with mouse click on the right.

(the respective Com-Port appears as soon as the balance has been plugged-in.)

Datei Einstellungen Hilfe	
Abschalten 💉 🚔 🚔 🦉	
eräte und Protokolle 🛛 🖓 🛪	Ausgabernethoden X
Gerät hinzufügen 💋 🔀 📫 Gerätemodelle verwalten	🚽 Hinzufügen • + Filter • 💋 🕕 😒
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	Ausloser/Abfragen (Timer/H X
hnittstellen 4 X	📲 Hinzufügen 🔹 🧭 📑 🚺 Aktiviert 🕐 Auslösen
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	KERN'
KERN BalanceConnection	>
KERN BalanceConnection Datei Einstellungen Hilfe	
KERN BalanceConnection Datei Einstellungen Hilfe	
KERN BalanceConnection Datei Einstellungen Hilfe Abschalten Abschalten 7 >	- D)
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KERN BalanceConnection Datei Einstellungen Participation Participation Participation Partinter <td>Ausgabernethoden × Ausgabernethoden × Pritter • ⊘</td>	Ausgabernethoden × Ausgabernethoden × Pritter • ⊘
KERN BalanceConnection Datei Einstellungen Hilfe Abschalten Gabschalten Gabsc	Ausgabernethoden × Ausgabernethoden × P Hinzufügen + + Filter + ⊘ ① ⑤ Tastensimulation (global) Auslösez/Abfragen (Timer/H_ × P Hinzufügen + ⊘ ②
KERN BalanceConnection Datei Einstellungen Hilfe Abschalten Gerät hinzufügen Au Gerät hinzufügen Au Hinzufügen O Port aktivieren COM4 (9600 Baud, 8 bits, 1 stop) - Siena Wireless EM7455 Qualcomm COM4 (9600 Baud, 8 bits, 1 stop) COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Console öffnen COM7 (9600 Baud, 8 bits, 1 stop) Com7 (9600	Ausgabemethoden × Ausgabemethoden × Ausioser/Abfragen (Timer/H× Ausioser/Abfragen (Timer/H× Ausioser → Hinzufügen • ⊘ ③
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The enabled COM-Port is now reported as active by the green dot. When clicking this port on the right, the menu appears again. Click "Open console".



The following remote commands can now be used:

- JNEA: Query / set network address (IP)
- JNEK: Query / set network mask
- JNEG: Query / set gateway address

Here is an example: "JNEA":

Enter the required command in the text field and confirm with the hook



The weighing platform can then be accessed through the following ports:

- TCP:23 (Telnet)
- UDP:187 (Raw)

After the IP-address of the balance having been read-out, the balance can now be connected to a network via the Ethernet interface.



C

8.3.2 Connecting the weighing platform to a network

First the weighing platform is connected to the network via the Ethernet interface. According to the required task of the balance, the corresponding interface is selected in the network.

In this example "TCP/IP Client"



Select the IP Port properties and enter the IP address of the balance. Then enter Port 23 according to the type of connection (here TCP). Then click "Apply" and close the window with "X":

ICP/UDP / IP E	Einstellungen	*			
Verbindun	ngsart: TO	CP - Client - verbinden	d		~
Verbindun	ngsart: TC	CP - Client - verbinden	d Port	: [~

Now the required port has been added and enabled. By clicking the port on the right the menu appears. Click "Open console".



Now the balance can be addressed to by remote commands from the network.

😳 KERN BalanceConnection					9 <u></u> 2		\times
D: Console - TCP/IP -> 10.0.1.167:23				×			
0 11.11.2020 14:00:43: S							4
Geri 11.11.2020 14:00:43: S S 0.0	00 kg				5		•
11.11.2020 14:00:49: S S 0.1	49 kg						
Send ✓ I	😏 🔜 🤞 leeren 🕕			C	O Auslösen		~
COM3 [9600 Baud, 8 bits, 1 stop] - Sierra Wir TCP/IP -> 10.0.1.167:23 COM4 [9600 Baud, 8 bits, 1 stop] - Sierra Wir COM7 [9600 Baud, 8 bits, 1 stop] - USB Seria	eless EM7455 Qualcomm ^e eless EM7455 Qualcomm ^e						
		Logo >	K	ER	IN	8	•
<	>	1					

8.4 WLAN

- After switching-on without configuration, the weighing platform creates first a WLAN access point named "AI-Thinker_xxxxx.
- \Rightarrow Connect the weighing platform to the computer via this access point.
- ⇒ In a web browser enter the IP-address 192.168.4.1 of the weighing platform. The configuration website will appear. The static IP will be assigned via the KCP-commands.

Α	Select operating mode "apsta"
В	Enter WLAN-network name and the corresponding password
С	Save settings and restart target software (reboot button)

(s. fig.:)

Serial Set	ting		SoftAP		Station	
Baud:	115200	~	SSID:	AI-THINKER_872B77	Mode:	apsta 🗸
Databits:	8	~	Passwd:		AP Name:	PDWLAN
Parity:	NONE	~	Auth Mode:	OPEN Y	AP Passwo	ord: 12345678
Stopbits:	1	~	IP addr:	192.168.4.1	IP address	0.0.0.0
			Subnet mask:	255.255.255.0	Subnet ma	sk: 0.0.0.0
			Gateway:	192.168.4.1	Gateway:	0.0.0.0
			Mac:	be:dd:c2:87:2b:77	Mac:	bc:dd:c2:87:2b:77

D	Separate connection to the PC (access point) and disconnect power
	supply of the weighing platform.

Should settings have been made on the device, make sure that afterwards the power supply to the weighing platform is disconnected.
 Only then the settings will be imported.
 Update (reboot-button) and saving (save-button) are not sufficient.

E	Reconnect the weighing platform to the power supply,	
	 Restore connection to the PC (access point), 	
	 Invoke the configuration website and check the IP-address. 	

(s. fig.:)

Serial Set	ting		SoftAP		Station		
Baud:	115200	~	SSID:	AI-THINKER_872B77	Mode:	apsta	~
Databits:	8	~	Passwd:		AP Name:	PDWLAN	
Parity:	NONE	~	Auth Mode:	OPEN V	AP Password	12345678	
Stopbits:	1	~	IP addr:	192.168.4.1	IP address:	10.0.11.13	
			Subnet mask:	255.255.255.0	Subnet mask	255.255,0.0	
			Gateway:	192.168.4.1	Gateway:	10.0.0.1	
			Mac:	be:dd:c2:87:2b:77	Mac:	bc:dd:c2:87:2b:77	
				_			

F	Close the configuration website, connect the PC to the selected network				
G	Open the target software (e.g. KERN Balance Connection) and enter the IP-address and port 23.				

(s. fig.:)

TCP/IP -> 10.0.11.13:23 < 440) (Gewichtswert-Par:	ser) - Eigenschafter	n E				
Allgemein Bus IP Port Eigenschaften TCP/UDP / IP Einstellungen:							
Verbindungsart: TCP - Client - verbindend Lokale IP Adresse: Port: Ziel Host/IP Adresse: 10.0.11.13 Keep-Alive: Image: Comparison of the second s							

For inquiry of the configuration allocated via DHCP, as well as to the specific/static configuration of the IP-address, subnet-mask or the gateway, the KCP-commands **JNWx** can be used.

9 Adjustment

As the acceleration value due to gravity is not the same at every location on earth, every digital weighing platform must be coordinated - in compliance with the underlying physical weighing principle - to the existing acceleration due to gravity at its place of location (only if the weighing system has not already been adjusted to the location in the factory). This adjustment process must be carried out for the first commissioning, after each change of location as well as in case of fluctuating environment temperature. To receive accurate measuring values it is also recommended to adjust the digital weighing platform in weighing operation.

1	•	Prepare the required adjustment weight. The adjustment weight to be used depends on the capacity of the weighing system. Carry out adjustment as near as possible to the weighing system's maximum weight. Info about test weights can be found on the Internet at: http://www.kern-sohn.com.
	•	Observe stable environmental conditions. Stabilisation requires a certain warm-up time.

Performance of adjustment

Adjustment can be initiated using the commands "JAGZ", "JAGL" as well as "JAS" in the KCP protocol.

- 1) Emptying the weighing pan.
- Sending the command to adjust the zero point ("JAGZ"). The balance sends a confirmation ("JAGZ A"), and the value of the required adjustment weight.
- 3) Place the adjustment weight on the balance.
- 4) Send the command to accept the adjustment load ("JAGL"). The balance sends a confirmation ("JAGL A").
- 5) Save the adjustment using the command "JAS". The balance sends a confirmation ("JAS A"). The adjustment was successfully carried out.

This chapter 10.1 describes the ideal way to adjust the balance using the BalanceConnection software.

10 Carrying out measurements

10.1 Using your own software

Measurements may be requested using various KCP protocol commands.

10.1.1 Request weight values

Central commands for the request are:

- "S": Transmit the next stable value
- "SI": Transmit the current value
- "SIR": Transmit the current net weight value continuously

10.1.2 Zeroing and taring

The device can be zeroed and tared using the following commands:

- "Z": Zeroing the display on the balance
- "T": Taring the balance
- "TA": Setting or requesting the current tare value

10.2 Using the BalanceConnection software

The enclosed "KERN BalanceConnection" software includes an example configuration for working with the KDP weighing platform. The example configuration switches the balance to continuous transmission, displays the current weight value on-screen and includes the most important commands (adjustment, zeroing, taring, printing).

To activate the example configuration, please select the "KDP" model from the list of models.

-Balance	Manage			
mouny	Modell:	DS-M		
	nofor row	lata an rac	noived	

After confirmation the software loads the example configuration and restarts. You will see the following items (two windows): 1) Main window BalanceConnection:

🚰 KERN BalanceConnection (KDP - Ethernet)	-	\times
File Settings Help		
💿 Turn off 🛛 🧾 🙀 🧀 🎥 🖳		4
Devices and protocols \sim		-
🕂 Add device instance 🛛 🙀 Manage device types 🕂 Add output 🔹 🕂 Add filter 👻 🚺 👏		
····· KDP		
Interfaces 🛛 🕹 🗙 Triggers/queries (hotkeys/ti 🗙		-
🕂 Add port 👻 ⊘ 👔 Enabled 🔅 📄 🔚 🧐 🚽 🖓 🕂 🚽 Add trigger 🗸 🧭 💮 Enabled 🛛 🕐 Trigg	er	
COM3 [9600 Baud, 8 bits, 1 stop] - USB Serial Port COM5 [9600 Baud, 8 bits, 1 stop] - USB Serial Port COM5 [9600 Baud, 8 bits, 1 stop] - com0com - serial port emulator CNC# COM8 [9600 Baud, 8 bits, 1 stop] - com0com - serial port emulator CNC# COM8 [9600 Baud, 8 bits, 1 stop] - com0com - serial port emulator CNC# KDP: -> Zero KDP: CAL: -> Externe Justierung		
		.::

- 2) On-screen display window with three areas:
 - a. Main functions
 - b. Current weight value
 - c. Table listing weight values, which can be requested using "PRINT".



Important:

In the standard configuration COM1 is selected as the interface. Please adjust this on your balance. For access through Ethernet, WLAN or Bluetooth, please enter the relevant port in the software.

For details on changing the configuration please refer to the instructions for the BalanceConnection software.

In the example configuration the weighing platform sends data constantly.
 The weight values would normally all be forwarded to the output methods.

If you only want to keep the current value, then please use the operation "Save value" to accept the value. In the output method, the package type must be set to manual trigger.

Or	On-Screen Display - Table - Properties								
	General	Data source	Scenario	OSD Einste	llungen				
	🕴 📲 Ad	d data source	- 🧭 P	acket type:	ManualTrigger	•			
	····· TCP/IP -> 10.0.1.76:23 < KDP (Gewichtsweit-Parser)								

10.2.1 Functions

In the example configuration the following functions are pre-configured:



⇒ Zeroing (->0<-):

The display on the balance is set to zero, the full weighing range is available.

\Rightarrow Taring (TARE):

The current weight value is adopted as the tare value. The new net value is displayed.

⇒ Pre-TARE:

You can define a tare value (please specify in and with the weighing unit).

\Rightarrow **PRINT**:

The current weight displayed on the balance is adopted as a value into the assigned output methods.

⇒ Adjustment (CAL):

Adjustment of the platform is illustrated in the example configuration by a sequence of commands, which corresponds to the adjustment procedure in the chapter 9. Please follow the instruction displayed on the screen.

11 Downloads

BalanceConnection Download (online):

<u>http://balanceconnection.kern-sohn.com/dl</u>

BalanceConnection manual (online):

<u>http://balanceconnection.kern-sohn.com/manual.pdf</u>

KCP-manual:

<u>http://kern-sohn.com/kcp</u>