

Accessories

Interface cable for RS-232

For direct connection to a printer or PC, cable length approx. 1.5 m. The interface parameters can be set using the balance keypad.

Note:

The interface cable is **free of charge** if you purchase balance, printer or Ethernet-/WLAN-/Bluetooth adapter together.

Printer, ...	→	PC, YKI-01/-02/-03	911-013, YKE-01, YKB-01N, YKN-01	YKS-01
Balance	↓	Product code	Product code	Product code
440, 572, 573, ALJ-AM, ALS-A, ALT-B, CDS, CKE, DE-D, DS, EMB-V, FCB, FKB, FKB-A, FKT, FKTF, IKT, KB, PCB, PCD, PKS, PKT, PLJ-A, PLJ-F, PLS-A, PLS-F, PLE, PLT		572-926		
DBS, DLB, DLT, DAB		572-926		-
BFA, BFB, EWJ, GAB-N, GAB-P, IFB, KFB-TM, NFB, PFB, UFB		CFS-A01		
BFS, CCS, CFS, CPB KFS-TM, IFS (from year of production 2015)		CFS-A01		
EG-N, EW-N		474-926		
PEJ, PES (printer connection unidirectional)		-	474-926	
PEJ, PES (printer/PC connection bidirectional)		MLB-A05		
ADB, AEJ-CM, AEJ-NM, AES-C, AES-N, AET, CCP, ILJ-C, ILS-C, ILT, PET, PLJ-C, PLJ-G, PNJ, PNS		MLB-A05		
KFS-T, MLS-D		MLB-A05		-
HFT		KFF-A01		
ABT-N, PBJ, PBS		770-926		
ABJ-NM, ABS-N		ACS-A01		
CCT		KET-A09		

KERN SCD-4.0

Balance Connection Software

For the direct transmission of weighing data to Windows applications (operating systems Windows XP, Vista, 7, 8, 10).

New: many additional applications, which will help to make the daily work with your balance easier.

- Transfer via RS-232, Bluetooth, LAN or WLAN (TCP/UDP/IP) to applications or files on the PC or in networks, e.g. to MS Excel, Access or Word
- Background transfer at the touch of a key or on a time-controlled basis
- Any output formatting of the transferred data is possible
- Any sequence, if applicable, calculations are possible, etc.
- Automatic file-naming
- Recording of date and time for every value transferred

- Several output options (e.g. On-Screen display, Excel and file), is also possible simultaneously
- Parallel recording of data from several balances in a table simultaneously
- Large display of the latest recorded value on the display, for maximum transparency
- The interface protocols for KERN balances are already predefined
- Interface cable included. Please specify balance model when ordering (see interface cable table)

Benefits:

- Typing errors during e.g. manual transfer are avoided
- Automatic recording, e.g. for long-term tests
- GLP-compliant lab software

KERN SCD-4.0

KERN PET-A16

Alibi memory software

Alibi memory software for viewing and saving data from the alibi memory onto a PC connected to the system, suitable for series

KERN AEJ-C, ILJ-C, PLJ-C,

KERN PET-A16

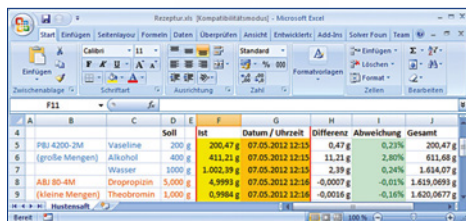
KERN PLJ-A06

WLAN interface

WLAN interface for wireless connection of the balance to networks and WLAN capable devices, such as tablets, laptops, smartphones or networks, must be ordered at purchase,

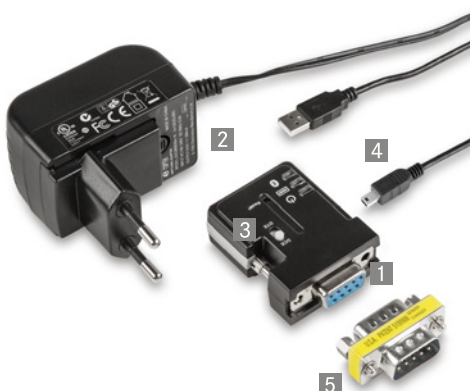
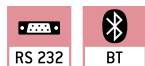
suitable for series KERN AEJ-C, AES-C, ILJ-C, ILS-C, PLJ-C,

KERN PLJ-A06



Accessories

STANDARD



KERN YKI-02

RS-232 / Bluetooth adapter

Adapter for the wireless connection of balances, force measuring devices etc. with an RS-232 interface to Bluetooth devices, such as Bluetooth printers (e.g. KERN YKC-01), tablets, laptops, Smartphones etc. In this way, where there is a physical separation or a large distance between the devices, the weighing data from one or several balances can be easily sent without cable and printed on a Bluetooth printer or transferred to a Bluetooth device (you would need the relevant software on the Bluetooth device, not included with the delivery). The compact adapter with its attractive design can usually be connected directly to the balance **1**, e.g. an additional interface cable would not be necessary. Bluetooth adapter will

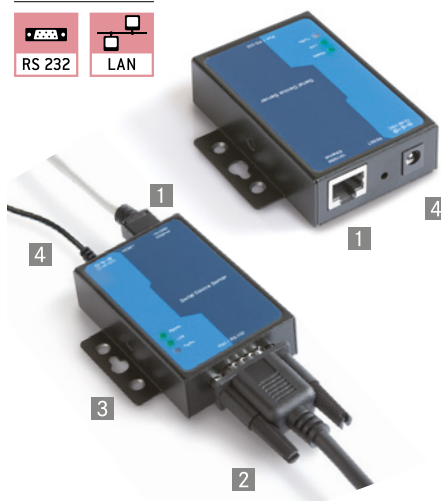
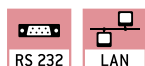
be powered by the balance (if compatible) or with the mains adapter which is supplied as standard **2**.

Range up to 100 m outside, depending on obstacles, such as, walls, the sensitivity and type of antenna of the receiver. Intersections of sending and receiving lines using the DCE/DTE switch **3**. **Compatible with KERN BalanceConnection software.**

Scope of delivery: RS-232/Bluetooth adapter, mains adapter (EU/UK/USA/AUS/CH) **2**, USB-A to Mini-USB-B cable **4**, gender changer **5**, driver CD.

Price interface cable incl.,
KERN YKI-02

STANDARD



KERN YKI-01

RS-232 / Ethernet adapter

Adapter to connect balances, force measuring devices etc. with an RS-232 interface **2** to an IP-based Ethernet network **1**. The adapter allows direct integration of measuring devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current measuring data at any time from within the whole network, without having to use additional cables. The adapter supports a wide range of configurational options using the enclosed administration software or by the web interface. The driver delivered with the goods allows you to access the measuring device with existing,

non-network-compatible applications using a virtual COM port. **Compatible with KERN BalanceConnection software.** DIN track mount **3** or free-standing.

Scope of delivery: RS-232 Ethernet adapter with 1x Port RS-232 **1**, mains adapter **4**, CD (driver, software, operating instructions), adhesive feet.

Price interface cable incl.,
(please provide balance model in order),

KERN YKI-01



Note: To connect to your network, you will need information from your network administrator. We recommend discussing connecting your device into your network with the administrator before you place your order.



STANDARD



KERN YKI-03

RS-232 / WLAN adapter

High-quality adapter for the wireless connection of balances, force measuring devices etc. with RS-232 interface to WLAN-enabled devices, such as tablets, laptops, Smartphones etc. In this way, where there is a physical separation or a large distance between the devices, the weighing data from one or several balances can be easily transferred without cable to a WLAN device or a network (relevant software on the WLAN device needed, not included in delivery). The adapter allows direct integration of measurement devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current measuring data at any time from within the whole network, without having to use additional cables. The adapter supports a wide range of configurational options using the enclosed administration software or by the

web interface. The driver delivered with the goods allows you to access the measurement device with existing, non-network-compatible applications using a virtual COM port.

Compatible with KERN Balance Connection Software. The adapter also has an Ethernet interface for a wired connection to an IP-based Ethernet network **1**. Thanks to the screw terminals **2**, the power connection can be implemented individually using individual wires or using the robust, screw-in power connector **3**. Large input voltage range from 12 V–48 V. Suitable for wall mounting and DIN track mount **4** or free-standing.

Scope of delivery: RS-232/WLAN adapter, mains adapter, network cable (1 m), driver CD.

Price interface cable incl.,
KERN YKI-03

Accessories

KERN YKD-A02



Large display

with superior display size, digit height 3" (76 mm). Luminescent, red LED display for easy reading of weight, even from a distance or under poor lighting conditions. 6 segments, mains connection as standard (230 V, EU/GB), connection using RS-232 data interface, dimensions WxDxH 541x55x180 mm.

Suitable for series IFB, BFB, NFB, UFA, UFB,

KERN YKD-A02

KERN CFS-A03



Signal lamp

Signal lamp for visual support of weighing with tolerance range. Three-colour LED, red, green, yellow. Power supply via balance using RS-232. Total dimensions WxDxH 100x180x300 mm

Suitable for series BFB, BFN, CPB-N, GAB-N, GAB-P, IFB, KFB-TM, NBB, NFB, NFN, SFB, UFA, UFB, UFC, UFN,

KERN CFS-A03

KERN CFS-A04



2nd RS-232 data interface

separate Y cable, e.g. for simultaneous connection of a printer, signal lamp etc. Suitable for series BFB, CPB-N, CFS, GAB-N, GAB-P, IFB, KFB-TM, NFB, UFA, UFB, SFB, BAN, UFN, NFN

KERN CFS-A04

KERN AFH 12



RS-232/USB adapter

to connect peripheral devices with USB connection, fits on all balances and measuring instruments with RS-232 port.

Scope of delivery:
Converter cable, CD with driver,

KERN AFH 12

KERN AFH 14



2 x RS-232/USB adapter

to connect peripheral devices with USB connection, fits on all balances and measuring instruments with RS-232 port.

Scope of delivery:
Converter cable, CD with driver,

KERN AFH 14

KERN YKA-02



Power supply adapter set

from standard EU to GB/US/AUS/CH etc. Four pieces. Ideal for devices with Class II protection (not earthed). Ideal for Euro moulded plug,

KERN YKA-02

KERN YKP-01



NEW

Stand (tripodal)

stable and robust, to elevate display device, stainless steel, height-adjustable, height of stand approx. 750–1000 mm, Factory Option.

Suitable for series SFB (from weighing plate size WxD 500x400 mm), BFA, BBB, BFN, BBN, KEN-TM, UFN, NFN,

KERN YKP-01

KERN YKP-02



NEW

Stand (tripodal)

stable and robust, to elevate display device, stainless steel, height-adjustable, height of stand approx. 750–1000 mm, Factory Option.

Suitable for series SFE, IFS, IFB, BFB, BXS, BFS, BFA, BBB, BBN, UFA, UFB, UFC, NFB, NBB, KFE-TM, KXG-TM, KXS-TM, KEN-TM,

KERN YKP-02



KERN KXS-A03

Foot switch

Ideal, when 2 free hands are required for application. TARE or PRINT function can be selected. For the PRINT function you will need the RS-232 interface cable KERN KXS-A04.

Must be ordered at purchase, suitable for series BAN, BXS, IXS, SXS, KXS-TM, KXG-TM.

KERN KXS-A03



KERN RFS-A02

Tare pan

Made of stainless steel, which makes cleaning easy and hygienic. Ideal for weighing loose screws, small parts, fruit, vegetables, cheese, etc.

- WxDxH 370x240x20 mm
- Net weight approx. 524 g

KERN RFS-A02



KERN CH-A01N

Tare pan with pan beam

Made of stainless steel. Ideal for weighing loose small parts, fruit, vegetables etc. Max. load 30 kg. Removable tare pan which makes cleaning easy and hygienic. Suitable for models KERN CH 15K20, HCB 20K10, HCN 20K50IP, HDB-N.

- Dimensions: Tare pan Ø/H 273x40 mm
- Pan beam: WxDxH 320x273x300 mm
- Total dimensions: WxDxH 320x273x340 mm
- Total net weight approx. 1000 g

KERN CH-A01N



KERN RFB-A02

Sturdy transport case

for the safe transport and storage of series WTB-N, RFB, lockable. Inner dimensions WxDxH 330x290x117 mm, total dimensions WxDxH 510x360x220 mm,

(scale not included with delivery!)

KERN RFB-A02



KERN MPS-A07

Sturdy transport case

for the safe transport and storage of series EOE, EOB scales with weighing plate size ≤ 315x305mm without stand, inner dimensions WxDxH 425x315x65 mm, net weight approx. 2,2 kg,

(scale not included with delivery!)

KERN MPS-A07



KERN ABS-A08

Protective dust cover

For protection from dust and light. Suitable for all KERN analytical balances and precision balances with glass draught shield, except

KERN ADB, AET 100-5AM, AET 200-5DAM

KERN ABS-A08

Accessories



KERN YDB-03

Universal density set

Universal density set for precise and convenient density determination of liquids and solids $\leq/\geq 1$. Suitable for all KERN analytical balances.

Scope of delivery: Beaker, thermometer, sample holder, adapter, equalising weights, volume plummet (stainless steel, 20 g), universal submersible basket for solid bodies which

float and sink. The wire of the submersible basket has a diameter of 0.5 mm and therefore complies with the requirements of DIN EN ISO 1183-1 (Test methods for the determination of density of non-foamed plastics),

KERN YDB-03



KERN 962-335V

Density determination of the volume plummet

The density of the enclosed steel volume plummet can be determined by using the universal density set to measure solids. We would be pleased to determine the density of the volume plummet for you quickly and at a reasonable price in our DAkkS calibration laboratory.

You will receive a calibration certificate with all data relating to the density and volume,

KERN 962-335V



KERN YBI-01

Ioniser to neutralise electrostatic charge

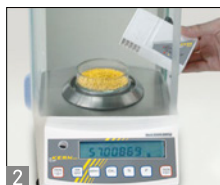
Weighing items which are non-conductive, such as plastic, china, glass, etc often carry electrostatic charge. The electromagnetic field which then occurs between the items and the balance can cause the weighing result to be distorted by up to a gramme.

With the mount, **1** conveniently next to the balance or you can manually direct it from all sides onto a particular weighing item **2**.

Therefore, when weighing in milligrammes or even smaller increments, we recommend neutralising the electrostatic charge with the KERN AC-Korona discharge ioniser.

- Neutralisation $\pm 20V$
- Discharge of ozone 0,04 ppm/h
- Dimensions WxDxH 97x53x31 mm, WxDxH 190x60x110 mm incl. mount
- Net weight approx. 0,11 kg approx. 0,55 kg incl. mount
- Mains connection 110-230V/50Hz, AC power supply, 12V DC output

KERN YBI-01



STANDARD



KERN YPS-03

Weighing table

Accurate measuring results require stable working conditions! The KERN YPS-03 weighing table has been constructed to absorb vibrations and oscillations, which would otherwise distort the weighing result.

- Work table with steel profile frame and height-adjustable feet
- Total dimensions WxDxH 770x650x815 mm
- Dimensions granite plate WxD 270x410 mm
- Net weight approx. 55 kg (scale not included with delivery!)

The YPS-03 weighing table consists of:

- Polished granite plate (34 kg) as integrated working surface, positioned on absorbing rubber components

1 Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs,

KERN YPS-03



KERN PET-A01/KERN KET-A04

Software for database management

for easy maintenance of item data at the PC, such as, e.g., creating item detail links, capturing or deleting item data, creating item text etc. Data of the following categories can be edited: customers, stocks, universal variables, labels, packaging, users, products. Data transfer to the balance using the interface cable

(included as standard in the delivery with the balance),

For series KERN AET, PET:
KERN PET-A01
For series KERN ILT:
KERN KET-A04

STANDARD

RS 232



PET-A05



PET-A09

KERN PET-A05/KERN PET-A09

Barcode scanner

ergonomically optimised hand-held version, for connection to an RS-232 interface. Particularly robust and durable. Scratchproof scan window made of hardened glass. Large working area: data collection is possible up to a distance of 43 cm, dimensions WxDxH 152x84x63 mm,

Scope of delivery: barcode scanner, interface cable, mount,

RS-232 version: KERN PET-A05
USB version: KERN PET-A09

STANDARD

RS 232

USB



KERN PET-A13

Direct thermal label printer

very quiet and very quick, print speed of 150 mm/sec, maximum print width: 104 mm, maximum print length: 812 mm, internal power supply, interfaces: USB, RS-232. Especially suitable for the logistics industry, the pharmaceutical industry and in the retail sector. Dimensions WxDxH 231x289x186 mm.

Scope of delivery: Printer, USB interface cable, labeling software.

Suitable for series KERN KERN AET, BBB, BBN, CCP, CCT, ILT, KEN-TM, KET-TAM, PET,

KERN PET-A13

Accessories

- Paper roll (1 pcs.), 1450 direct thermal labels, Dimensions labels WxD 100x50 mm, outer diameter label roll 120 mm, KERN PET-A12

STANDARD

RS 232

USB



KERN PET-A14

Thermal transfer and direct thermal label printer

very quiet and very quick print speed of 101.6 mm/sec, maximum print width: 104 mm, maximum print length: 812 mm, internal power supply, interfaces: USB, RS-232. Especially suitable for the food, chemical and pharmaceutical industries. Software for easy editing of (adhesive) labels included with delivery. The sample labels can be sent to the balance as well as the printer. The sample labels can be sent to the balance as well as the printer. Dimensions WxDxH 231x289x270 mm.

Scope of delivery: Printer, USB interface cable, labeling software.

Suitable for series KERN AET, BBB, BBN, CCP, CCT, ILT, KEN-TM, KET-TAM, PET, KERN PET-A14

Accessories

- Paper roll (1 pcs.), 1500 direct thermal labels, dimensions labels WxD 100x50 mm, outer diameter label roll 120 mm, KERN PET-A10
- Paper roll (1 pcs.), 1450 direct thermal labels, dimensions labels WxD 100x50 mm, outer diameter label roll 120 mm, KERN PET-A12

NEW

KERN PET-A17

Cable with special length 3 m

between the display and the weighing unit, for verified models this cannot be ordered afterwards, suitable for series KERN AET, PET.

KERN PET-A17

KERN ILT-A03

Cable with special length 15 m

between display device and platform, for verified models this cannot be ordered afterwards, suitable for series KERN ILT.

KERN ILT-A03

KERN PET-A03/KERN KET-A03

Second display

Ideal for training and demonstration purposes in laboratories or industry. Large backlit LCD display with digit height 25 mm. KERN KET-A03: 6 segments, KERN PET-A03: 8 segments. 2 additional data interfaces RS-232. Interface cable to the balance, length approx. 1,5 m, as well as mains adapter standard.

Dimensions WxDxH 150x58x100 mm.

For series KERN AET, PET:
KERN PET-A03
For series KERN ILT:
KERN KET-A03

STANDARD

RS 232



KERN KET-A06

Large display

with superior display size, digit height 4,4" (117.7 mm). Luminescent LCD display for easy reading of weight, even from a distance or under poor lighting conditions. Ready for wall mounting. 6 segments, mains connection as standard (230 V, EU / GB). Connection to the balance using the RS-232 or RS-485 interface. Stainless steel housing IP66 protection.

Dimensions WxDxH 541x55x180 mm. Suitable for series KERN BBB, BBN, ILT-GM, KET-TAM.

KERN KET-A06

STANDARD

RS 232 RS 485 IP 66



KERN KET-A10

Signal lamp

Signal lamp for visual support of weighing with tolerance range. Three-colour LED, red, green, yellow. Power supply via balance using RS-232. Total dimensions WxDxH 100x180x300 mm. Scope of delivery: Signal lamp CFS-A03, adapter cable KET-A11.

Suitable for series KERN ILT-BAM, ILT-GAM, KET-TAM.

KERN KET-A10



KERN PET-A06

USB keyboard

For easy capture of item data at the balance, for connection to a USB interface. 105 keys, separate numeric keypad, black housing, Dimensions WxDxH 440x128x24 mm.

Suitable for series KERN AET, PET, BBB, BBN, ILT, KET-TAM, KEN-TM.

KERN PET-A06

STANDARD

USB





KERN KET-A01

Analogue/Digital converter

to connect up to two platforms to the display device, suitable for series KERN BBB-N, BBN, ILT-BAM, ILT-GAM, KET-TAM,

KERN KET-A01

KERN KEN-A07

Relay output

with 4 outputs for weighing in 2 tolerance ranges, cannot be ordered afterwards, suitable for series KERN BBB, KEN-TM,

KERN KEN-A07

KERN KEN-A09

Profibus module

for integrating a KERN balance into a Profibus network, suitable for series KERN BBB, KEN-TM,

KERN KEN-A09

KERN KET-A02

Wall mount

to fit the display device (see Fig.), the display device can be fitted at two angles, dimensions WxDxH 135x148x110 mm, suitable for series KERN ILT-BAM, ILT-GAM, KET-TAM,

KERN KET-A02

(Display device is not included with the delivery)



KET-A05/KET-A08

Transponder card reader

RFID technology, dimensions WxDxH 133x30x98 mm, suitable for series KERN AET, BBB, BBN, CCP, CCT, ILT-BAM, ILT-GAM, ILT-NM, KET-TAM, KEN-TM, PET.

Scope of delivery: transponder card reader, interface cable for connecting to the digital I/O interface. Transponder cards are not included with the delivery.



KERN KET-A05

Transponder cards for transponder card reader KET-A05, pack of 10 pcs.,

KERN KET-A08



KERN Pictograms:

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).	 Piece counting: Reference quantities selectable. Display can be switched from piece to weight.	 Suspended weighing: Load support with hook on the underside of the balance.
 Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required.	 Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).	 Battery operation: Ready for battery operation. The battery type is specified for each device.
 Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.	 Rechargeable battery pack: Rechargeable set.
 Alibi memory: Electronic archiving of weighing results, complying with the 2009/23/EC standard.	 Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode.	 Universal mains adapter: with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS
 Data interface RS-232: To connect the balance to a printer, PC or network.	 Totalising level A: The weights of similar items can be added together and the total can be printed out.	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, USA or AUS version available.
 RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.	 Totalising level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition.	 Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.
 USB data interface: To connect the balance to a printer, PC or other peripherals.	 Weighing principle: Strain gauge Electrical resistor on an elastic deforming body.	 Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate.
 Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals.	 Percentage determination: Determining the deviation in % from the target value (100 %).	 Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings.
 WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.	 Weighing units: Can be switched to e.g. non-metric units at the touch of a key. See balance model. Please refer to KERN's website for more details.	 Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision.
 Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	 Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.	 Verification possible: The time required for verification is specified in the pictogram.
 Interface for second balance: For direct connection of a second balance.	 Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.	 DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram.
 Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram.	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module.	 ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.	 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.	 Stainless steel: The balance is protected against corrosion.	 Warranty: The warranty period is shown in the pictogram.
 GLP/ISO log: With weight, date and time. Only with KERN printers.		

KERN – Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2000 kg. In combination with a DAKkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAKkS calibration laboratory today is one of the most modern and best-equipped DAKkS calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DAKkS calibration of

balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- DAKkS calibration of balances with a maximum load of up to 50 t
- DAKkS calibration of weights in the range of 1 mg – 2500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages D, GB, F, I, E, NL, PL

Your KERN specialist dealer: