

Platform scales KERN ILS · ILJ



High-resolution industrial scale for the most precise results up to 50 kg, also with EC type approval [M]

Features

- **Laboratory balance with separate platform:** Ideal when working in a glove-bag or under laboratory fume hoods. Particularly practical for weighing toxic, volatile or contaminated substances
- **1** Particularly suitable for compact, very dense samples, such as for example those encountered in road construction or the construction industry
- **Robust construction of the platform** ensures stability, protects the weighing technology elements and is robust enough to cope with everyday use
- **2** only KERN ILJ: **Automatic internal adjustment** in the case of a change in temperature $\geq 3\text{ }^{\circ}\text{C}$ or time-controlled every 3 hours

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Weighing with tolerance range (checkweighing):** a visual signal helps with portion division, dispensing or grading
- **Totalizing** of weights (manual/automatic)
- Higher weighing speed by switching off the last digit
- **GLP/ISO record keeping of weight values** with date, time, user ID, project and serial number in combination with an appropriate KERN printer
- **Density determination** of liquids and solids. User guidance step by step on the display. The density is indicated directly on the display.
Note: Interesting facts about density determination see page 10

Technical data

- Large backlit LCDdisplay, digit height 18 mm
- Dimensions of weighing plate WxD 347x259 mm
- Dimensions of display device WxDxH 270x165x115 mm
- Cable length of display device approx. 1 m
- Permissible ambient temperature $10\text{ }^{\circ}\text{C} / 40\text{ }^{\circ}\text{C}$

Accessories

- **Protective working cover** over the display device, standard, can be reordered, KERN ILS-A02
- **Suitable printers** see page 130

STANDARD

only ILS

2

only with printer































OPTION

FACTORY

only ILJ

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Net weight approx. kg	Options			
						Verification		DKD Calibr. Certificate	
						KERN		KERN	
KERN									
ILS 30K-4	30	0,1	-	-	13,5	-		963-128	
ILS 50K-4	50	0,1	-	-	13,5	-		963-128	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.									
ILJ 25K-4M	25	0,1	1	5	19,9	965-228		963-128	

KERN Pictograms

 Internal adjusting (CAL): Quick setting of the balance's accuracy with internal adjusting weight (motordriven).	 Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.	 Memory: Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU
 Data interface RS-232: To connect the balance to a printer, PC or network	 Control outputs (optocoupler, digital I/O) to connect relays, signal lamps, valves, etc.	 Interface for second balance: for direct connection of a second balance
 Network interface: For connecting the scale to an Ethernet network. With KERN products you can also use a universal RS-232/LAN converter.	 GLP/ISO record keeping: of weighing data with date, time and identification-no. Only with printers from KERN.	 Piece counting: Reference quantities selectable. Display can be switched from piece to weight
 Net-total weighing: weight of tare cup and weight of components memorized in two separate stores.	 Percentage determination: Determining the deviation in % from the target value (100%).	 Weighing units: Can be switched to e. g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details.
 Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning.	 Vibration-free weighing: (Animal weighing program) Vibrations are filtered out so that a stable weight is obtained.	 Spray and dust protection IPxx: The type of protection is shown by the pictogram. For details see the glossary.
 Stainless steel: the balance is protected against corrosion.	 Suspended weighing: load support with hook on the underside of the balance.	 Battery operation: Ready for battery operation. The battery type is specified for each device.
 Rechargeable battery pack: rechargeable set.	 Mains adapter: 230V/50Hz in standard version for Germany. On request GB, AUS or USA version.	 Power supply: integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.
 Strain gauges: Electrical resistor on an elastic deforming body.	 Tuning fork principle: A resonating body is electromagnetically excited, causing it to oscillate.	 Electromagnetic force compensation: Coil in a permanent magnet. For the most accurate weighings.
 Single cell technology: Advanced version of the force compensation principle with the highest level of precision.	 Verification possible: The time required for verification is specified in the pictogram.	 DKD calibration possible: The time required for DKD calibration is shown in days in the pictogram.
 Package shipment: The time required to manufacture the product internally is shown in days in the pictogram.	 Pallet shipment: The time required to manufacture the product internally is shown in days in the pictogram.	 Warranty: The warranty period is shown in the pictogram.

Precision is our business

To ensure the high level of precision of your balance, KERN offers the appropriate test weight package for your balance. This consists of the test weight, box and DKD calibration certificate, as proof of its accuracy. The best way to ensure proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E1, E2, F1, F2, M1, M2, and M3 with weights from 1 mg to 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe.
(DKD = German Calibration Service ~ UKAS)

Your KERN specialist dealer:

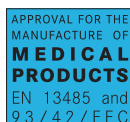
Thanks to the high level of automation, we can carry out DKD calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- DKD calibration of balances with a maximum load of up to 6000 kg
- DKD calibration of weights in the range of 1 mg – 500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DKD calibration certificates in the following languages
D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponding test weight or the calibration service? Your KERN specialist dealer will be pleased to assist you.

KERN – Professional measuring. Measuring technology and testing services from a single source





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Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

