

Laboratory platform scales KERN ILS-C · ILJ-C

PREMIUM
★★★



High-resolution industrial scale, available also with internal adjustment and 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 e.g. those in road construction or the construction industry
- **Robust construction of platform** ensures stability, protects the weighing system and is durable enough for with everyday use
- **2** only KERN ILJ-C: **Automatic internal adjustment** in the case of temperature change ≥ 3 °C and time-controlled every 3 hours
- **Alibi memory:** paperless archive of weighing results, see page 11

- **Internal memory** for up to 999 weighing results, 1000 items or recipe ingredients, 100 container weights, 100 users
- **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 portioning, dispensing or grading
- **Totalising** of weights (manual/automatic)
- **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. Step by step user guidance on display. The density is indicated directly on the display. Note: For interesting facts about density determination see page 11

Technical data

- Large backlit LCD display, digit height 18 mm
- Weighing plate dimensions WxD 347x259 mm
- Dimensions of display device WxDxH 270x165x115 mm
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over the display device, standard, can be retrofitted, KERN ILS-A02
- **Suitable printers** see page 157 ff.

STANDARD



OPTION











































FACORY



Model	Weighing range [Max]	Readout [d]	Verification value [e]	Minimum load [Min]	Net weight approx.	Options			
						Verification		DAkkS Calibr. Certificate	
KERN	kg	g	g	g	kg	MII KERN		DAkkS KERN	
ILS 30K-4C	30	0,1	-	-	13,5	-		963-128	
ILS 50K-4C	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-4CM	25	0,1	1	5	19,9		965-217	963-128	

KERN Pictograms

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).	 Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).	 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 B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.	 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 C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation functions.	 Rechargeable battery pack: Rechargeable set.
 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, AUS or USA 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. Additional convenient functions, such as barcode and back calculation.	 Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 USB data interface: To connect the balance to a printer, PC or other peripherals.	 Strain gauges: Electrical resistor on an elastic deforming body.	
 Bluetooth data interface: To transfer data from the balance to a printer, PC or other peripherals.	 Tuning fork principle: A resonating body is electromagnetically excited, causing it to oscillate.	
 WLAN 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 %).	 Electromagnetic force compensation: Coil inside a permanent magnet. For the most accurate weighings.
 Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	 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.	 Single cell technology: Advanced version of the force compensation principle with the highest level of precision.
 Interface for second balance: For direct connection of a second balance.	 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.
 Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.	 Vibration-free weighing: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.	 DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram.
 GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see the glossary.	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 GLP/ISO log: With weight, date and time. Only with KERN printers, see "Accessories"	 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.
 Piece counting: Reference quantities selectable. Display can be switched from piece to weight.	 Stainless steel: The balance is protected against corrosion.	 Warranty: The warranty period is shown in the pictogram.

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.

Your KERN specialist dealer:

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 6 t
- DAkkS 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
- DAkkS calibration certificates in the following languages D, GB, F, I, E, NL