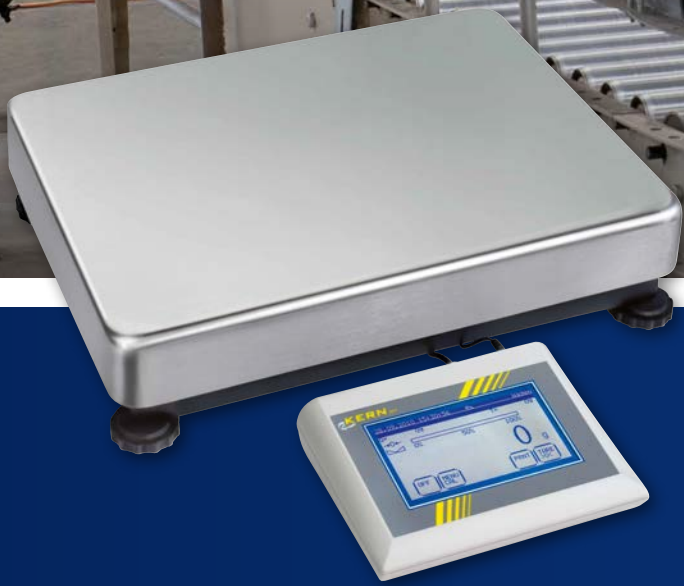# KERN®

PLATFORM SCALES

PROFESSIONAL MEASURING

5,372 kg

2015

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.

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 A:
The weights of similar items can be added together and the total can be printed out.

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.

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.

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. nonmetric 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.

Platform scale KERN ILT

PREMIUM
★★★

KERN ILT-BM

KERN ILT-NM

KERN ILT-BM

KERN ILT-GM

State-of-the-art premium touchscreen platform scale with the complete range of functions for demanding processes

Backlit and touch-sensitive LCD display
with digit height 21 mm, screen diagonal 5,7"
(approx. 145 mm), WxH 115x86 mm.
Dimensions of display device WxDxH
215x156x71 mm. Thanks to the interactive
touch display, the menu and processes are
self-explanatory. This reduces training times,
avoids operating errors and like this, ensures
a more efficient functionality

**Intuitive operation, increases efficiency
and saves costs:** Easy capture of item data at
the PC, call up of items on the scale using the
connected barcode or RFID scanner, output of
weighing data using the large or second display
or control outputs, data transfer to the PC,
printer or alibi memory.

User-friendly piece-counting function: entry
and call up of items to be counted from the
database with all relevant additional data such
as piece weight, name, price (for internal
valuation), reference quantity, tare container
weight, barcode, item image etc.
Also integrated: automatic reference optimi-
sation, correction of reference weights, freely
selectable reference quantity and much more
Note: on the basis of the KERN ILT range, you
can entry and call up of a wide range of high-
performance counting systems - your KERN
product specialist will be pleased to assist you

High level of connectivity
- 1 x Ethernet interface
- 2 x RS-232 interface
- 2 x USB interface, e.g. for data exchange or
  connection of barcode or RFID scanners for
  quick call up of stored items
- Digital I/O interface (4 in / 4 out)
  e.g. for machine and plant control
- 1 x Interface for additional display

Identification by RFID: rapid and secure iden-
tification of users, items, vehicles, etc. using
the optional RFID transponder card reader. The
data can be read and edited (suitable for ILT-
BM, -GM, KET-TM)

**Possible record of items using the optional
barcode scanner**, see accessory. Ideal for
rapid recording of items, e.g. as part of
stocktaking or to record recipe ingredients
during recipe weighing etc.

Platform scale KERN ILT

Features

- **Convenient recipe-weighing:** complete recipes with all recipe ingredients and associated target values, names, tolerances, tare weights etc. can be stored. If there is an excess amount of one ingredient the practical back calculation function automatically calculates the new target weights of the other ingredients
- **Multiplier function:** recipes and their ingredients can be multiplied at will at the press of a button, which is ideal for the production of larger containers, bulk packs etc.
- **Best-before dates** can be stored and printed for each item
- **Statistical function** for statistical analysis of series of measurements
- **User-friendly batch management** with batch master and batch number assignment, classification, batch derivation, batch determination, batch status management, shelf-life processing, documentary, original and WIP batches, batch-specific units of measurement, batch where-used list
- **Individual user settings can be stored**
  - User name and number
  - Password
  - Menu language
  - User profile
  - Additional guest mode for users without log-in
  - Authorisations etc.
- **Enormous database (1 GB)** for thousands of weighing results, items, recipes, recipe ingredients, container weights, user data etc.

- **Alibi memory:** paperless archive of weighing results, see also page 11
- **Electronic level indicator** continuously checks the position of the scale, sounds an alarm when the device is out of balance and gives visual instructions on how to correct the situation (only ILT-NM, -C)
- **High level of process reliability:** for define limit values for selected parameters, such as, e.g. temperature, levelling, minimum load, adjustment, etc. When the value falls outside these limits, a warning message will be issued and this can be stored with the measuring result
- **Individual print formats:** Printouts can be individually adjusted depending on operating mode, application or your own requirements, directly at the balance or the PC. In this way the data related to these processes is documented accurately, efficiently and clearly

Technical data

- Weighing plate dimensions, stainless steel, WxD
  A 195x195 mm   B 230x230 mm
  C 300x240 mm   D 347x259 mm
  E 400x300 mm   F 500x400 mm
  G 650x500 mm
- Permissible ambient temperature 15 °C / 35 °C; 15 °C / 30 °C (verified)

Accessories

- **Transponder card reader,** RFID technology, dimensions WxDxH 133x98x30 mm, for details see page 164, KERN KET-A05,
- **Transponder cards,** 10 pieces, for details see page 164, KERN KET-A08,

- Barcode scanner, hand-held version, dimensions WxDxH 152x84x63 mm, for details see page 163
- Version RS-232, KERN PET-A05,
- Version USB, KERN PET-A09,
- **USB keyboard** for easy capture of items, descriptions etc., dimensions WxDxH 440x128x24 mm, for details see page 164, KERN PET-A06,
- **Wall mount for display device,** dimensions WxDxH 135x148x110 mm, for details see page 164, KERN KET-A02,
- **Second display,** dimensions WxDxH 150x34x80 mm, for details see page 164, KERN KET-A03,
- **Large display,** stainless steel, digit height 111,7 mm, dimensions WxDxH 635x195x48 mm, details see page 163, KERN KET-A06,
- **Analogue/Digital** converter to connect up to two platforms to the display device, for details see page 164, KERN KET-A01,
- **Direct thermal label printer,** inclusive software for easy editing of (adhesive) labels included, for details see page 163, KERN PET-A13,
- **Thermal transfer and direct thermal label printer,** included software for easy editing of (adhesive) labels, for details see page 163, KERN PET-A14,
- **Software for database management,** for convenient administration of item data at the PC. For details see page 163, KERN KET-A04,
- **Suitable printers** and an extensive accessories range see page 157 ff.

STANDARD

CAL INT	CAL EXT	MEMORY	RS 232	USB	SWITCH	LAN	PRINTER	PCS	RECIPE	SUM	PERCENT	UNIT	TOL	MOVE	UNDER	230 V	DMS	FORCE
ILT-NM, -C	ILT-BM, -GM								only ILT-NM, -C	only ILT-BM, -GM					not ILT-BM, -GM		ILT-BM, -GM	ILT-NM

OPTION: DAkkS +3 DAYS
FACTORY: M +3 DAYS, not ILT-C

1 DAY (ILT-BM, NM)   3 DAYS (ILT-GM)   3 YEARS WARRANTY

Model KERN	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Weighing plate		Optionen Verification M KERN	DAkkS Calibr. Certificate DAkkS KERN	
ILT 6K-3GM	3 | 6	1 | 2	1 | 2	40	B	●	965-228	963-128	
ILT 6K-4BM	6	0,1	1	5	A		965-217	963-128	
ILT 10K-3GM	6 | 15	2 | 5	2 | 5	40	C	●	965-228	963-128	
ILT 10K-3LGM	6 | 15	2 | 5	2 | 5	40	E	●	965-228	963-128	
ILT 10K-5NM	10	0,01	0,1	0,5	D	●	965-217	963-128	
ILT 30K-2GM	15 | 30	5 | 10	5 | 10	200	E	●	965-228	963-128	
ILT 60K-2GM	30 | 60	10 | 20	10 | 20	400	E	●	965-229	963-129	
ILT 60K-2LGM	30 | 60	10 | 20	10 | 20	400	F	●	965-229	963-129	
ILT 35K-4NM	35	0,1	1	5	D	●	965-217	963-128	
ILT 50K-4C	50	0,1	–	–	D	●	–	–	963-128	
ILT 60K-3BM	60	1	10	50	F	●	965-218	963-129	
ILT 100K-2GM	60 | 150	20 | 50	20 | 50	1000	F	●	965-229	963-129	
ILT 100K-2LGM	60 | 150	20 | 50	20 | 50	1000	G	●	965-229	963-129	
ILT 300K-2GM	150 | 300	50 | 100	50 | 100	2000	G	●	965-229	963-129	
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].									
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.									

● Price reduction

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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.