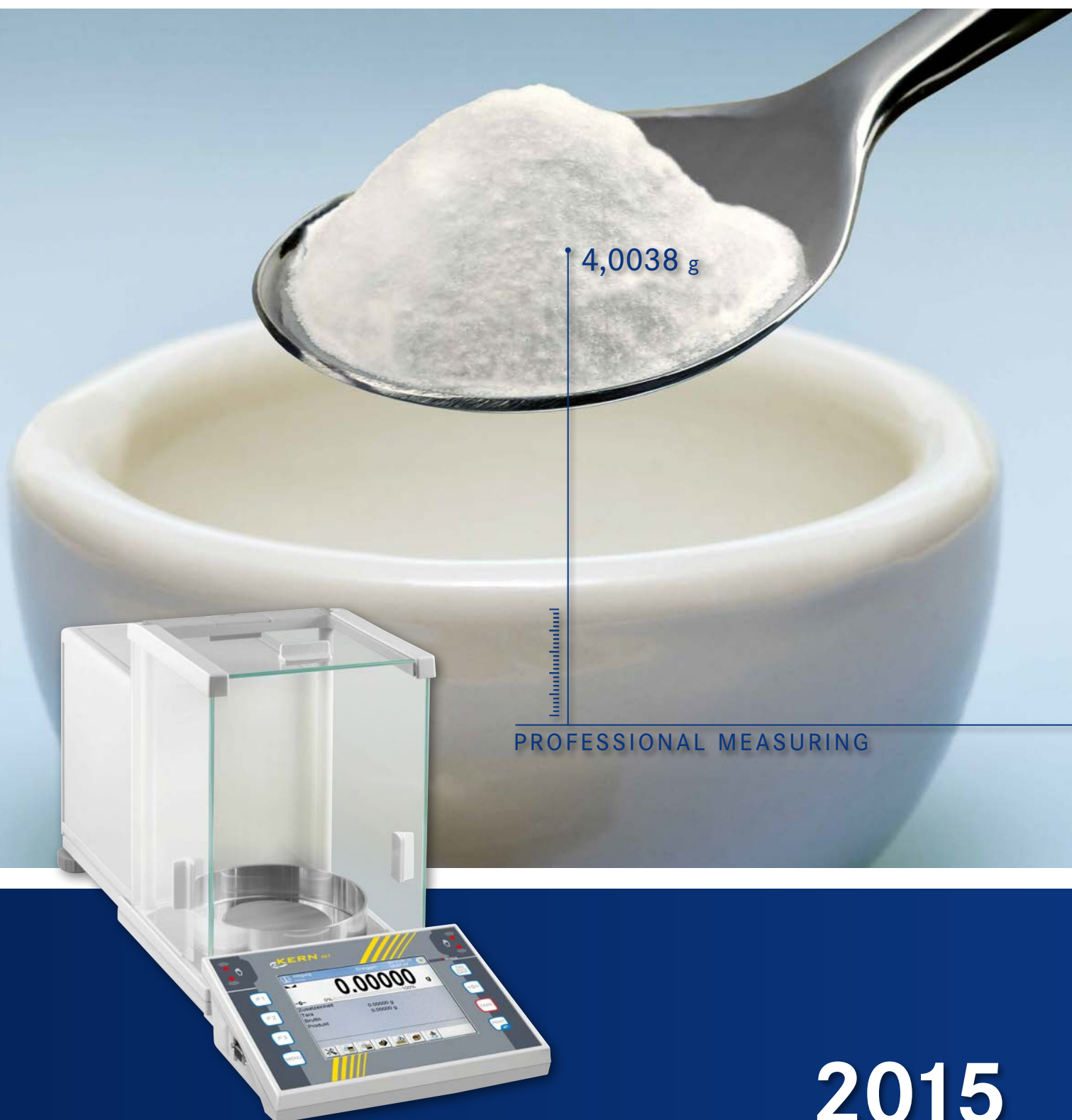


## ANALYTICAL BALANCES



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.

**Often it is the small things which make daily laboratory life easier.**

On this page we have put together a small selection of practical accessories for your demanding weighing processes.

For additional details and further accessories, please see page 157



**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.  
Suitable for all KERN analytical balances with total dimensions  $\leq W \times D$  270x410 mm

KERN YPS-03,

**Ioniser to neutralise electrostatic charge**

Goods to be weighed which are non-conductive, such as plastic, china, glass, etc often carry electrostatic charge. The electromagnetic field which then occurs between the goods to be weighed and the balance can cause the weighing result to be distorted by up to a gramme. Suitable for all KERN analytical balances.

KERN YBI-01,



**Protective dust cover**

For protection from dust and light.  
Suitable for all KERN analytical balances.

KERN ABS-A08,



**Thermal statistics printer**

For printing weights, recipes etc. or for GLP record keeping of weighing data with date and time print. With extensive statistical functions for the analysis of measurements series. Suitable for all KERN analytical balances (except AET).

KERN YKS-01,



**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.

KERN YDB-03,



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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.

