

# MEDICAL SCALES

for clinics, doctors' surgeries, care facilities and vets



**1769**  
 Ancestor Johann Jakob Sauter built the Hahn inclination scale out of iron, a foundation stone for weighing for the balance industry in Southern Germany



**1844**  
 KERN is founded – precision balances are produced



**1863**  
 A proud Gottlieb Kern with his staff



**1880**  
 Pharmaceutical balance with Aesculap



**1923**  
 Inflation – KERN wages are paid with self printed currency



**1980**  
 The electronic balance ousts mechanical devices



**1994**  
 Accredited DKD laboratory (ISO 17025)



**2000**  
 New premises in Balingen



**2002**  
 Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards



**2007**  
 Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)



**2008**  
 Authorisation for initial verification by the manufacturer (2009/23/EC)



**2009**  
 Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)



**2012**  
 Verification point for non-automatic balances and test weights.



**2014**  
 Expansion of the product range to include optical instruments (microscopes and refractometers)



**2015**  
 Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse



**2017**  
 Come with KERN into the digital future: Expansion of the model ranges compatible with Industry 4.0, as well as the related services



**2019**  
 Significant anniversary year! 25 years of accredited DAkkS/DKD laboratory 175 years of KERN & SOHN 250 years of balance manufacture in the Sauter family-owned company



**2020**  
 Construction of Ziegelei 3.0, extension of administration building

## PROFESSIONAL MEASURING

# 2021



Legal provisions concerning medical products

### Legal notice

Medical personal scales are understood to be all non-automatic scales that are intended to be used to determine the body weight in medical applications (e.g. patient, baby, chair and bed scales, verified according to class). These scales are regulated by European Directive 2014/31/EU.

- Medical personal scales are also governed by the regulations for medical devices that are placed on the market in accordance with European Directive 93/42/EEC (for Germany: Medical Products Law [MPG])

### Types of scales for medical applications that require mandatory verification:

#### APPROVED MEDICAL DEVICE

- Personal scales (incl. chair and wheelchair scales) in hospitals
- Baby scales and mechanical birth weight scales
- Bed scales
- Scales in dialysis units

Verified medical personal scales with a maximum resolution of 3000 digits are classified as Verification Class III (see type plate).

The re-verification deadlines depend on the location of use and are given in the Verification Ordinance. The operating manual specifies the re-verification deadlines for Germany at the time of going to press. The operator of the scale is obliged to ensure that the verification stamps are not damaged and that the statutory re-verification deadlines are observed.

KERN & SOHN GmbH does not accept responsibility for this.

### Scales not specifically intended as a medical device and without verification:

These scales do not have an approval according to Directive 93/42/EEC (or the German Medical Products Law). They are thus not permitted for use in medical applications. They are used for self-checks by the patient and are not verified.

### A mandatory verification is not required for the following intended uses:

#### PROFESSIONAL CARE

- Body weight scales in pathology (not a medical application according to § 7b Paragraph 2 No. 4 of the Verification Ordinance)
  - Personal and baby scales (the latter can usually be borrowed in pharmacies)
  - Baby scales for midwives
  - Personal scales during blood collection for the preparation of blood products
- (Information from: "Die Eichverwaltung informiert, Waagen in der Heilkunde" (Information from the Verification Office: Scales in medical applications) dated 19.04.2013)

#### HOME CARE

Non-verified scales are not permitted to be used in medical applications. They are used for self-monitoring of the health status. Examples of these include personal scales, body fat scales, etc. Such scales can be used to determine weight trends so that a doctor can be consulted in case of doubt. The patient is then weighed with verified scales at the medical practice to enable diagnosis.

### Other information

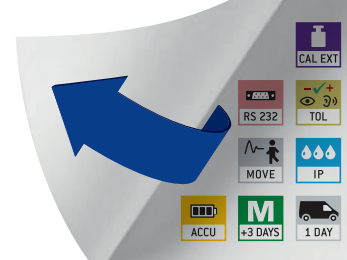
Balances with an EC Type-Approval which have been distributed without verification, cannot be subsequently verified. Non-verified balances are not acknowledged as a medical product in accordance to norm 93/42/EEC and therefore, may not be used in medical applications.

### Gravitational force


Electronic balances are subject to location regulations due to the earth's gravitational force. If the location of use is changed, the electronic balance must be re-verified and re-calibrated.

For an overview of the symbols, see the reverse side

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## KERN Pictograms

|   |   |   |
|---|---|---|
|  <b>Adjusting program CAL:</b><br>For quick setting up of the balance's accuracy. External adjusting weight required   |  <b>ZERO:</b><br>Resets the display to "0"  |  <b>Monocular Microscope:</b><br>For the inspection with one eye  |
|  <b>Memory:</b><br>Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.  |  <b>Hold function:</b><br>When patients do not stand, sit or lie completely still, a stable weight is calculated using an average weight |  <b>Binocular Microscope:</b><br>For the inspection with both eyes   |
|  <b>Data interface RS-232:</b><br>To connect the balance to a printer, PC or network  |  <b>Hold function:</b><br>When the weighing conditions are unstable, a stable weight is calculated as an average value                   |  <b>Trinocular Microscope:</b><br>For the inspection with both eyes and the additional option for the connection of a camera |
|  <b>RS-485 data interface:</b><br>To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible  |  <b>Protection against dust and water splashes IPxx:</b><br>The type of protection is shown in the pictogram                             |  <b>Abbe Condenser:</b><br>With high numerical aperture for the concentration and the focusing of light                      |
|  <b>Bluetooth® data interface:</b><br>To transfer data from the balance to a printer, PC or other peripherals   |  <b>Suspended weighing:</b><br>Load support with hook on the underside of the balance  |  <b>Halogen illumination:</b><br>For pictures bright and rich in contrast  |
|  <b>WIFI data interface:</b><br>To transfer data from the balance to a printer, PC or other peripherals   |  <b>Battery operation:</b><br>Ready for battery operation. The battery type is specified for each device                                 |  <b>LED illumination:</b><br>Cold, energy-saving and especially long-life illumination                                       |
|  <b>Control outputs (optocoupler, digital I/O):</b><br>To connect relays, signal lamps, valves, etc.  |  <b>Rechargeable battery pack:</b><br>Rechargeable set   |  <b>Fluorescence illumination for compound microscopes:</b><br>With 100 W mercury lamp and filter                            |
|  <b>Statistics:</b><br>using the saved values, the device calculates statistical data, such as average value, standard deviation etc.   |  <b>Battery operation rechargeable:</b><br>Prepared for a rechargeable battery operation   |  <b>Fluorescence illumination for compound microscopes:</b><br>With 3 W LED illumination and filter                          |
|  <b>PC Software:</b><br>to transfer the measurements from the device to a PC  |  <b>Universal mains adapter:</b><br>with universal input and optional input socket adapters for<br>A) EU, CH<br>B) EU, CH, GB, USA       |  <b>Phase contrast unit:</b><br>For a higher contrast  |
|  <b>GLP/ISO-Protokoll:</b><br>With date and time.<br>Only with KERN printers  |  <b>Mains adapter:</b><br>230V/50Hz in standard version for EU. On request GB, AUS or USA version available                              |  <b>Darkfield condenser/unit:</b><br>For a higher contrast due to indirect illumination                                      |
|  <b>KERN Communication Protocol (KCP):</b><br>It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems |  <b>Power supply:</b><br>Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request                   |  <b>Polarising unit:</b><br>To polarise the light  |
|  <b>Piece counting:</b><br>Reference quantities selectable. Display can be switched from piece to weight  |  <b>Weighing principle: Strain gauges</b><br>Electrical resistor on an elastic deforming body  |  <b>Infinity system:</b><br>Infinity corrected optical system  |
|  <b>Totalising level A:</b><br>The weights of similar items can be added together and the total can be printed out  |  <b>Peak hold function:</b><br>capturing a peak value within a measuring process   |  <b>Automatic temperature compensation:</b><br>For measurements between 10 °C and 30 °C                                    |
|  <b>Weighing units:</b><br>Can be switched to e.g. nonmetric units at the touch of a key. Please refer to website for more details  |  <b>Push and Pull:</b><br>the measuring device can capture tension and compression forces  |  <b>Verification possible:</b><br>The time required for verification is specified in the pictogram                         |
|  <b>Weighing with tolerance range</b><br>(Check weighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model   |  <b>Integrated scale:</b><br>In the eyepiece   |  <b>Package shipment:</b><br>The time required for internal shipping preparations is shown in days in the pictogram        |
|   |  <b>360° rotatable microscope head</b>   |  <b>Pallet shipment:</b><br>The time required for internal shipping preparations is shown in days in the pictogram         |

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## KERN – Your partner for Medical scales

### Quality & Experience

We are absolutely committed to making products available to you which are of excellent built quality, are extremely robust, have a long service life and are easy to use too. These three factors: quality, durability and ease of operation have been hallmarks of our products for over 175 years.

### Conformity

Particularly in the medical environment, balances are subject to extensive standards and regulations, which serve to protect the users and patients. Over and above these standards, our certified quality management system, as well as our 20 trained medical product advisers ensure rapid and competent product advice on all aspects of medical weighing technology.

### Your advantages

#### fast

- 24 hour dispatch service for products in stock – order today, on its way tomorrow
- Sales & service hotline from 8:00 am to 6:00 pm

#### reliable

- 2+ years warranty
- Precision in weighing technology for more than 175 years

#### competent

- DAKkS accreditation  
DIN EN ISO/IEC 17025
- Certified QM system  
DIN EN ISO 9001
- Authorisation for initial verification by the manufacturer  
2014/31/EU
- Medical certifications  
DIN EN ISO 13485 and  
93/42/EEC

### Promptness

The right product, at the right time, in the right place – that is our strength. With our sophisticated internal logistics system we can make sure your order is ready for delivery within 24 hours (plus calibration time if applicable). So you can react quickly to your customers' requirements and requests.

### Professionalism and trust


On the subject of competent advice: Competence coupled with reliability – for centuries this has been the guiding principle of our company. This is why KERN sells its products exclusively through authorised dealers.

Albert Sauter, Managing Director  
[Balingen, December 2020]





## Notes

# KERN Medical Scales 2021









## Height measuring systems

MS... · MBA  Tape for measuring circumference, Height rods \_\_\_\_\_ 04, 05

## Baby scales

MBC   Baby scale \_\_\_\_\_ 06  
 MBA   Baby scale \_\_\_\_\_ 08  
 MBD Baby scale \_\_\_\_\_ 10

## Personal floor scales

MPE · MPE-E   Personal floor scale \_\_\_\_\_ 12  
 MPS   Personal floor scale \_\_\_\_\_ 14  
 MPB Personal floor scale \_\_\_\_\_ 16  
 MPC   Personal floor scale/Obesity scale \_\_\_\_\_ 18  
 MPD · MPD-E   Personal floor scales/Doctor scales \_\_\_\_\_ 20  
 MPK · MPL Personal floor scales \_\_\_\_\_ 22  
 MPI Personal floor scale \_\_\_\_\_ 24  
 MGC Mechanical personal floor scale \_\_\_\_\_ 25







## Bathroom scales

MGD Bathroom scale \_\_\_\_\_ 26



## Body analysis scales

MFB Body analysis scale \_\_\_\_\_ 27



## Wheelchair platform scales

MWA   Wheelchair platform scale \_\_\_\_\_ 28  
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## Stretcher scales

MWS-L   Stretcher scale \_\_\_\_\_ 32


## Handrail scales

MTA   Handrail scale \_\_\_\_\_ 34

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MCB   Chair scale \_\_\_\_\_ 36  
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ORA Analogue refractometer \_\_\_\_\_ 52

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## Circumference measuring tape and height rods for professional use in medical diagnostics

### 1 KERN MSW 200

Convenient tape for measuring circumference with convenient pull-out mechanism

#### Features

- Continuous pull-out measuring tape for e.g. precise measurement around the body
- Ideal to determine the WHR (Waist-to-Hip-Ratio), which can give information about the distribution of the body's fat deposits using an indirect determination of abdominal fat
- Useful diagnosis instrument
- With integrated feed mechanism
- The easiest handling:
  - Pull out the measuring tape,
  - Hang it in the recess provided for this,
  - Operate the feed mechanism,
  - Read measurement value with millimetre precision
- Measuring tape length 2,05 m (80 inch)
- Net weight approx. 0,05 kg
- **Note:** The models are only delivered in a set of 5 units. The price refers to a delivery of 5 items. Cannot be delivered individually.

### 2 KERN MBA-A01

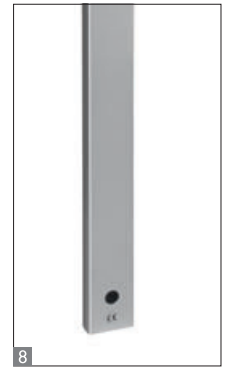
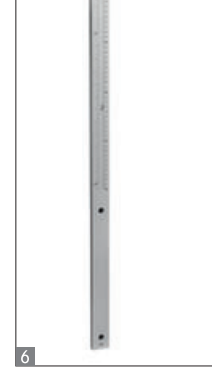
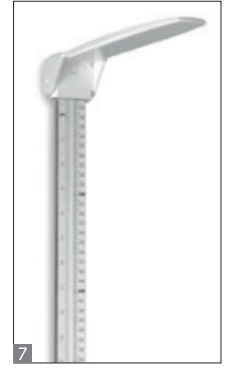
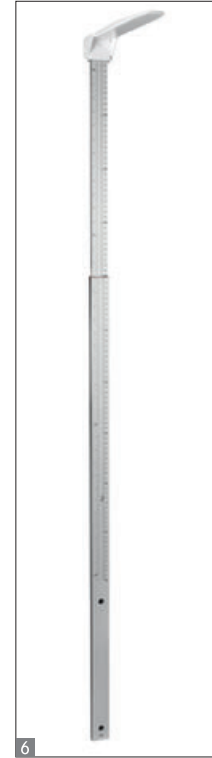
Portable mechanical height rod

#### Features

- Robust construction
- Compact size
- Easy and hygienic cleaning
- For babies up to a maximum of 80 cm
- Measuring range 30–80 cm (11,8–31,5 inch); increments of 1 mm (0,04 inch)
- Readability on scale with moveable stop
- Large guide surfaces make handling easier (aligning, shifting, reading)
- Overall dimensions max. W×D×H 850×240×60 mm
- Net weight approx. 0,36 kg

STANDARD





When every centimetre counts – mechanical height rods approved as a medical device for professional use in medical diagnostics

### 3 KERN MSB 80

#### Portable mechanical height rod

##### Features

- Approved as a medical device according to 93/42/EEC
- For babies of up to 80 cm
- Measuring range 10–80 cm; increments of 1 mm
- Large guide surfaces make handling easier (aligning, shifting, reading)
- 4 Measuring scale begins with 0 at right and left, so it can be used in both directions
- Height rod can be taken apart for compact storage
- Overall dimensions max. W×D×H 890×330×100 mm
- Net weight approx. 0,7 kg

### 5 KERN MSC 100

#### Portable mechanical height rod

##### Features

- Approved as a medical device according to 93/42/EEC
- For infants up to a maximum of 100 cm
- Measuring range 6,5–100 cm (2½–39¼ inch); increments of 1 mm (1/16 inch)
- Readability on scale with moveable stop
- Sturdy aluminum profile
- Stop can be folded for compact storage
- Overall dimensions max. W×D×H 1040×290×55 mm
- Net weight approx. 0,8 kg

### 6 KERN MSF 200

#### Mechanical height rod

##### Features

- Approved as a medical device according to 93/42/EEC
- Measuring range 60–205 cm (23½–78¾ inch); increments of 1 mm (1/16 inch)
- 7 Readability on scale with moveable, foldable stop or mounting on KERN scales MPS-PM (page 14), MPB-P (page 16) or 8 wall-mounted
- Sturdy aluminum profile
- Overall dimensions max. W×D×H 60×330×1630 mm
- Net weight approx. 0,7 kg

STANDARD



Elegantly-shaped baby scale – with EC type approval class III and approval for professional mobile or stationary medical use in medical diagnostics





**Features**

- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- Popular in paediatrics: the large tray, with its optimal ergonomic curvature, is ideal for the safe weighing of babies
- **2** Special function for neonatology centres: Difference function for calculating the weight gain before and after feeding
- Robust ABS plastic. Easy and hygienic cleaning
- Secure and non-slip positioning with rubber feet
- Hold function: When patients do not lie completely still, a stable weight is calculated using an average weight and this is then “frozen”. This means that you have sufficient time to attend to the young patient first and then take the weight reading in peace
- KERN MBC: Protective working cover included with delivery
- KERN MBC-E: Identical in construction to the MBC but without mains adapter, at a particularly attractive price, especially suitable for mobile use (eg. for midwives)

**Technical data**

- Backlit LCD display, digit height 25 mm
- Dimensions of tray W×D×H 600×280×55 mm
- Overall dimensions W×D×H 600×407×120 mm
- Overall dimensions incl. optional height rod W×D×H 890×470×175 mm
- KERN MBC: Battery operation possible, 6×1,5 V AA, not included, operating time up to 20 h
- MBC-E: Batteries included, 6×1,5 V AA, operating time up to 20 h
- Net weight approx. 5,5 kg

**Accessories**

- **1** Mechanical height rod to fix to the scale, measuring range 80 cm, increments of 1 mm, KERN MBC-A01
- **3** Foot/head rest to fix to the lying surface for even more safety when weighing small children, scope of delivery: 1 head rest and 1 foot rest, KERN MBC-A05
- **4** Carrying case for mobile use, only for models without height rod, KERN MBC-A02
- Protective working cover over the display device, scope of delivery: 5 items, KERN MBC-A06S05
- Internal rechargeable battery pack, operating time up to 40 h, without backlight, charging time approx. 12 h, only in combination with KERN YKA-44, KERN MBC-A08
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, CH, UK, KERN YKA-43
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, KERN YKA-44

|                 |               |                |
|-----------------|---------------|----------------|
| <b>STANDARD</b> | <b>OPTION</b> | <b>FACTORY</b> |
|                 |               |                |
| MBC             | MBC-E         |                |

\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

| Model              | Weighing range<br>[Max]<br>kg | Readability<br>[d]<br>kg | Verification value<br>[e]<br>kg | Mandatory by law<br>Verification |          |
|--------------------|-------------------------------|--------------------------|---------------------------------|----------------------------------|----------|
|                    |                               |                          |                                 |                                  |          |
| <b>KERN</b>        |                               |                          |                                 |                                  |          |
| <b>MBC 15K2DM</b>  | 6   15                        | 0,002   0,005            | 0,002   0,005                   |                                  | 965-128. |
| <b>MBC 15K2DEM</b> | 6   15                        | 0,002   0,005            | 0,002   0,005                   |                                  | 965-128. |
| <b>MBC 20K10M</b>  | 20                            | 0,01                     | 0,01                            |                                  | 965-128. |
| <b>MBC 20K10EM</b> | 20                            | 0,01                     | 0,01                            |                                  | 965-128. |

Baby scale KERN MBA

Compact baby scale with special Safe Guard tray with EC type approval class III and approval for professional mobile or stationary medical use in medical diagnostics



NEW





**Features**

- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- Modern design
- **2** Safe-Guard tray: the special, particularly recessed tray with raised side bolsters offers optimum conditions for the safe weighing of babies
- Large, insensitive plastic tray, without corners and edges, therefore particularly hygienic and easy to clean
- Lightweight, compact design, therefore easy to transport and store
- Secure and non-slip positioning with height-adjustable rubber feet
- Easy to use
- Data hold function: for easy reading of the weight display
- Integrated AUTO-OFF function to preserve the batteries

**Technical data**

- LCD display, digit height 25 mm
- Dimensions of tray W×D 600×260 mm
- Overall dimensions W×D×H 600×360×141 mm
- Batteries included, 6×1,5 V AA, operating time up to 20 h
- Net weight approx. 4 kg

**Accessories**

- **1** Mechanical height rod to fix to the scale, measuring range 80 cm, increments of 1 mm, KERN MBA-A01
- **1** WiFi data interface for wireless data transmission from balance to PC, tablet or smartphone, KERN YMI-A01
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection, quick-acting, on basis of modern quaternary ammonium compounds, and also against papova viruses. Particularly gentle on materials, and therefore very well suited for the disinfection of alcohol sensitive medical products. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, CH, UK, KERN YKA-43

STANDARD



OPTION



FACTORY



\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

| Model      | Weighing range<br>[Max]<br>kg | Readability<br>[d]<br>kg | Verification value<br>[e]<br>kg | Mandatory by law<br>Verification |  |
|------------|-------------------------------|--------------------------|---------------------------------|----------------------------------|--|
|            |                               |                          |                                 | M<br>KERN                        |  |
| MBA 10K-3M | 15                            | 0,005                    | 0,005                           | 965-128.                         |  |



Ergonomically-optimised baby scale with large lying surface

Features

- Modern design
- Large, ergonomically optimised tray for safe weighing of neonates
- Robust plastic tray
- Easy and hygienic cleaning
- Particularly flat and lightweight construction, so it is easy to transport and store
- Secure and non-slip positioning with rubber feet
- Easy to use
- Data hold function: for easy reading of the weight display
- Special function for neonatology centres: Difference function for calculating the weight gain before and after feeding
- Internal weight memory for one weight value
- Integrated AUTO-OFF function to preserve the batteries
- Weight displayed in kg or lb
- **Note:** The models are only delivered in a set of 5 units. I.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually.

Technical data

- LCD display, digit height 30 mm
- Dimensions of tray WxD 560x225 mm
- Overall dimensions WxDxH 650x350x55 mm
- Batteries included, 2x1,5 V AAA, operating time up to 20 h
- Net weight approx. 2 kg

Accessories

- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection, quick-acting, on basis of modern quaternary ammonium compounds, and also against papova viruses. Particularly gentle on materials, and therefore very well suited for the disinfection of alcohol sensitive medical products. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20x22 cm per cloth, KERN MYC-01
- **1** Carrying bag for mobile use, a carrying handle and shoulder strap ensure comfortable handling  
**Note:** This model is only delivered in a set of 5 units. I.e. the price given refers to a delivery of 5 items. Cannot be delivered individually, KERN YTB-01S05
- **2** Backpack for mobile use, 2 padded carrying straps and carrying handles for safe, convenient handling, additional, large zipped compartment for storing objects.  
**Note:** This model is only delivered in a set of 5 units. I.e. the price given refers to a delivery of 5 items. Cannot be delivered individually, KERN YTB-02S05

STANDARD



| Model                              | Weighing range | Readability |  |
|------------------------------------|----------------|-------------|--|
|                                    | [Max]<br>kg    | [d]<br>kg   |  |
| <b>KERN</b><br><b>MBD 20K-2S05</b> | 15             | 0,01        |  |



# TIPS FROM THE EXPERTS

As well as our balances and test services, we can offer you an extensive range of microscopes and refractometers.

We will offer you reliable quality at fair prices and with the shortest delivery times. Our product specialists will give you professional advice, will work with you to find the right product and will provide comprehensive support after the purchase too.

This ensures a high level of investment security and a good feeling – KERN, the nice balance manufacturer from the wilds of Southern Germany.



*Daniel Junger,  
Head of Product Management  
Optical devices*

## “No compromises with optical device”

KERN offers you a complete, carefully-designed range of biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes, especially flexible, preconfigured stereomicroscope sets, individually configurable stereomicroscope systems as well as microscope cameras and camera software

## “High-precision refractive index measurement for laboratories and industry”

Quick and easy determination of measured values, whether on site, in production or in the laboratory, ensuring safety, consistent quality and accelerating processes. This is what KERN’s analog and digital refractometers stand for and at an extremely attractive price in consistently high quality.

**All microscopes, microscope cameras, refractometers and a variety of practical accessories can be found in the new KERN Catalog of Microscopes & Refractometers 2021.**



**KERN OBE-13**

Professional personal floor scale with BMI function – with EC type approval class III and approval for professional medical use in medical diagnostics



**KERN MPE-P**  
with stand

**KERN MPE-H**  
with stand and  
height rod



**Features**

- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- **1** Practical second display on the back of the balance, which makes it easy for the patient and the doctor or nursing staff to read the weight
- **2** The MPE-HM model has an elegant height rod integrated into the column, which can be pulled out for use and has a sturdy plastic head rest and a measuring range from 88–205 cm
- The ergonomically optimised shape and robust design mean that this range is ideal for daily use in a professional environment
- Secure and non-slip positioning with height-adjustable rubber feet
- Level indicator to level the balance precisely
- Large platform with non-slip and wear-resistant surface made of plastic, to provide a secure footing for patients
- Hold function:  
When patients do not stand completely still, a stable weight is calculated using an average weight and this is then “frozen”. This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- Mother and child function: the mother’s weight will be taken and then the scale will be reset to zero at the push of a button. Then the mother and baby can be weighed together. The weight of the child will now be shown on the display. This is particularly good for infants, as this way they can be cradled, safe and sound, in the arms of their mother while being weighed

- BMI function to determine underweight/normal weight/surplus weight
- High resolution readability: readability [d] for 5 sec. increased by one decimal place at the touch of a key
- **3** Easy to transport thanks to the two integrated transport wheels
- Battery- or mains-powered, rechargeable battery operation optional
- KERN MPE: Protective working cover included with delivery
- KERN MPE-E: identically with MPE though without mains adapters, only battery operation. With a particularly attractive price

**Technical data**

- Large backlit LCD display, digit height 25 mm
- Dimensions of weighing plate W×D×H 365×360×80 mm
- Overall dimensions  
MPE-HM: W×D×H 365×570×2134 mm (with extracted height rod),  
MPE-PM: W×D×H 365×570×1030 mm
- KERN MPE: Battery operation possible, 6×1,5 V AA, not included, operating time up to 20 h
- KERN MPE-E: Batteries included, 6×1,5 V AA, operating time up to 20 h
- KERN MPE: Mains adapter external, standard
- Data interface RS-232 standard
- Net weight approx. 12 kg

**Accessories**

- Protective working cover over the display device, scope of delivery: 5 items, KERN MPE-A01S05
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01
- Internal rechargeable battery pack, operating time up to 40 h, without backlight, charging time approx. 12 h, KERN MBC-A08
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, CH, UK, KERN YKA-43
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, KERN YKA-44
- Interface cable RS-232 to connect an external device, KERN CFS-A01
- Matrix needle printer, KERN YKN-01
- Label printer, KERN YKE-01
- Thermal printer, KERN YKB-01N
- For further details, plenty of further accessories and suitable printers see Internet

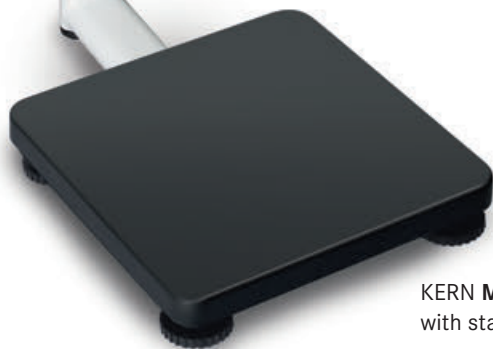
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|----------|--|--|--|--|--------|--|---------|--|
| STANDARD |  |  |  |  | OPTION |  | FACTORY |  |
|          |  |  |  |  |        |  |         |  |
| MPE      |  |  |  |  | MPE-E  |  |         |  |

\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

| Model         | Weighing range<br>[Max]<br>kg | Readability<br>[d]<br>kg | Verification value<br>[e]<br>kg | Mandatory by law<br>Verification |      |
|---------------|-------------------------------|--------------------------|---------------------------------|----------------------------------|------|
|               |                               |                          |                                 |                                  | KERN |
| MPE 200K-1PEM | 250                           | 0,1                      | 0,1                             | 965-129                          |      |
| MPE 250K100PM | 250                           | 0,1                      | 0,1                             | 965-129                          |      |
| MPE 200K-1HEM | 250                           | 0,1                      | 0,1                             | 965-129                          |      |
| MPE 250K100HM | 250                           | 0,1                      | 0,1                             | 965-129                          |      |

Personal floor scale KERN MPS

Professional personal floor scale with BMI function – with EC type approval class III and approval for professional medical use in medical diagnostics



**KERN MPS-PM**  
with stand



**KERN MPS-M**  
with free-standing  
display device



**Features**

- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- Thanks to its compact dimensions and the good price/performance ratio, this range is ideally suited for use in treatment rooms in doctor's surgeries and hospitals
- Ergonomic display device with large numerical keypad and high-contrast LCD display for easy entry and reading of patient data, such as, for example, the height for calculating the BMI
- Sturdy steel weighing plate with a non-slip and wear-resistant surface
- Easy and hygienic cleaning
- **1** Secure and non-slip positioning with height-adjustable rubber feet
- **1** Level indicator to level the balance precisely
- Hold function:  
When patients do not stand completely still, a stable weight is calculated using an average weight and this is then "frozen". This means that you have sufficient time to attend to the patient first and then take the weight reading in peace

- BMI function to determine underweight/normal weight/surplus weight
- **2** Wall mount for display device, standard
- Battery- or mains-powered, rechargeable battery operation optional
- Protective working cover included with delivery

**Technical data**

- LCD display, digit height 25 mm
- Dimensions of weighing plate W×D×H 275×295×58 mm
- Dimensions of display device W×D×H 210×110×50 mm
- Only MPS-PM:  
Overall dimensions (incl. stand) W×D×H 275×460×1015 mm
- Cable length of display device (only for models without a stand) approx. 120 cm
- Battery operation possible, 6×1,5 V AA, not included, operating time up to 50 h
- Mains adapter external, standard
- Data interface RS-232 standard
- Net weight MPS-M approx. 4.8 kg, MPS-PM approx. 6 kg

**Accessories**

- **3** Mechanical Height Rod, measuring range: 60–205 cm, can be screwed onto the column from the front or the back (MPS-PM) or wall-mounted, approved as a medical device according to 93/42/EEC, KERN MSF 200
- Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A02S05
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01
- Internal rechargeable battery pack, operating time up to 35 h, charging time approx. 24 h, KERN FOB-A08
- Interface cable RS-232 to connect an external device, KERN MPS-A08
- Matrix needle printer, KERN YKN-01
- Label printer, KERN YKE-01
- Thermal printer, KERN YKB-01N
- For further details, plenty of further accessories and suitable printers see Internet

|          |      |      |       |       |        |            |         |  |
|----------|------|------|-------|-------|--------|------------|---------|--|
| STANDARD |      |      |       |       | OPTION |            | FACTORY |  |
|          |      |      |       |       |        |            |         |  |
| RS 232   | MOVE | BATT | MULTI | 1 DAY | ACCU   | M +3 DAYS* |         |  |

\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

| Model         | Weighing range<br>[Max]<br>kg | Readability<br>[d]<br>kg | Verification value<br>[e]<br>kg | Mandatory by law<br>Verification |      |
|---------------|-------------------------------|--------------------------|---------------------------------|----------------------------------|------|
|               |                               |                          |                                 |                                  | KERN |
| MPS 200K100M  | 200                           | 0,1                      | 0,1                             | 965-129                          |      |
| MPS 200K100PM | 200                           | 0,1                      | 0,1                             | 965-129                          |      |

Personal floor scale KERN MPB

Personal floor scale with BMI function



**KERN MPB-P**  
with stand



**KERN MPB**  
with free-standing  
display device






**Features**

- Sturdy steel weighing plate with a non-slip and wear-resistant surface
- Easy and hygienic cleaning
- Secure and non-slip positioning with rubber feet
- Hold function:  
When patients do not stand completely still, a stable weight is calculated using an average weight and this is then “frozen”. This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- Simple and convenient 4-key operation
- BMI function to determine underweight/normal weight/surplus weight
- Wall mount for the display device, only for models without a stand
- Battery- or mains-powered
- Protective working cover included with delivery

**Technical data**

- LCD display, digit height 25 mm
- Dimensions of weighing plate W×D×H 315×300×60 mm
- Dimensions of display device W×D×H 210×110×50 mm
- Only MPB-P: Overall dimensions (incl. stand) W×D×H 315×440×1010 mm
- Cable length of display device (only for models without a stand) approx. 120 cm
- Battery operation possible, 6×1,5 V AA, not included, operating time up to 170 h
- Mains adapter external, standard
- Net weight MPB approx. 4.6 kg, MPB-P approx. 6.4 kg

**Accessories**

-  Mechanical Height Rod, measuring range: 60–205 cm, can be screwed onto the column from the front or the back (MPS-P) or wall-mounted, approved as a medical device according to 93/42/EEC, KERN MSF 200
- Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A02S05
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection, quick-acting, on basis of modern quaternary ammonium compounds, and also against papova viruses. Particularly gentle on materials, and therefore very well suited for the disinfection of alcohol sensitive medical products. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01

STANDARD



| Model                | Weighing range |       | Readability |     |
|----------------------|----------------|-------|-------------|-----|
|                      |                | [Max] |             | [d] |
| <b>KERN</b>          |                | kg    |             | kg  |
| <b>MPB 300K 100</b>  |                | 300   |             | 0,1 |
| <b>MPB 300K 100P</b> |                | 300   |             | 0,1 |

Personal floor scale KERN MPC

Professional personal floor scale – with EC type approval class III and approval for professional medical use in medical diagnostics

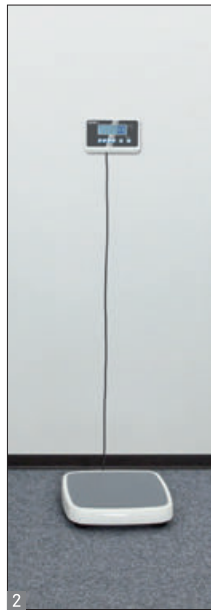
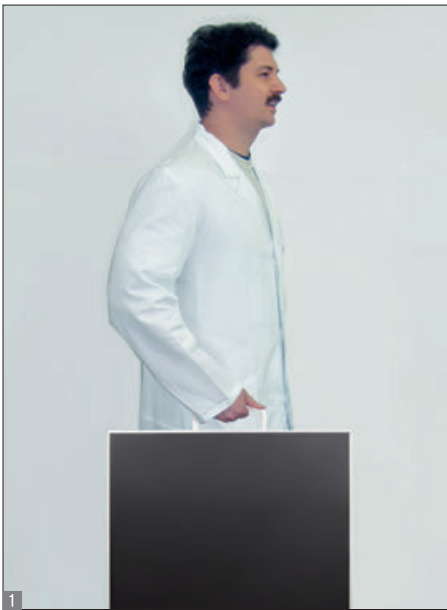


**KERN MPC 250K100M**

Special obesity model  
**MPC 300K-1M**



Special obesity model  
**KERN MPC 300K-1LM**



**Features**

- Version with [Max] = 300 kg and larger weighing plate! Specially suitable for weighing overweight patients who are in the obese category
- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- The bestseller for doctor's surgeries, chemists and hospitals
- Robust design for daily use in a professional environment
- Easy and hygienic cleaning
- Secure and non-slip positioning with height-adjustable rubber feet
- Level indicator to level the balance precisely
- 1 KERN MPC 300K-1LM: Sturdy handle for easy transportation of the scale
- 2 Flexible positioning of display device, e.g. free-standing or mounted to the wall. Wall mount for display device standard
- 3 + 4 Large platform with non-slip and wear-resistant surface made of plastic, to provide a secure footing for patients
- High resolution readability: readability [d] for 5 sec. increased by one decimal place at the touch of a key
- BMI function to determine underweight/normal weight/surplus weight

- Hold function: When patients do not stand completely still, a stable weight is calculated using an average weight and this is then "frozen". This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- Mother and child function: the mother's weight will be taken and then the scale will be reset to zero at the push of a button. Then the mother and baby can be weighed together. The weight of the child will now be shown on the display. This is particularly good for infants, as this way they can be cradled, safe and sound, in the arms of their mother while being weighed
- 5 GLP/ISO report, printout of weight value, BMI, etc. with date and time. FLP/GMP-compliant print form in DE, GB, FR, only in combination with KERN MPC-A01, CFS-A01 and printer YKB-01N
- Battery- or mains-powered, rechargeable battery operation optional
- Protective working cover included with delivery

**Technical data**

- Large backlit LCD display, digit height 25 mm
- Dimensions of display device W×D×H 200×130×60 mm
- Cable length of display device approx. 150 cm
- Battery operation possible, 6×1,5 V AA, not included, operating time up to 20 h
- Mains adapter external, standard

**Accessories**

- Protective working cover over the display device, scope of delivery: 5 items, KERN MBC-A06S05
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01
- Internal rechargeable battery pack, operating time up to 40 h, without backlight, charging time approx. 12 h, KERN MBC-A08
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, CH, UK, KERN YKA-43
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, KERN YKA-44
- RS-232 data interface, must be ordered at purchase, KERN MPC-A01
- Interface cable RS-232 to connect an external device, KERN CFS-A01

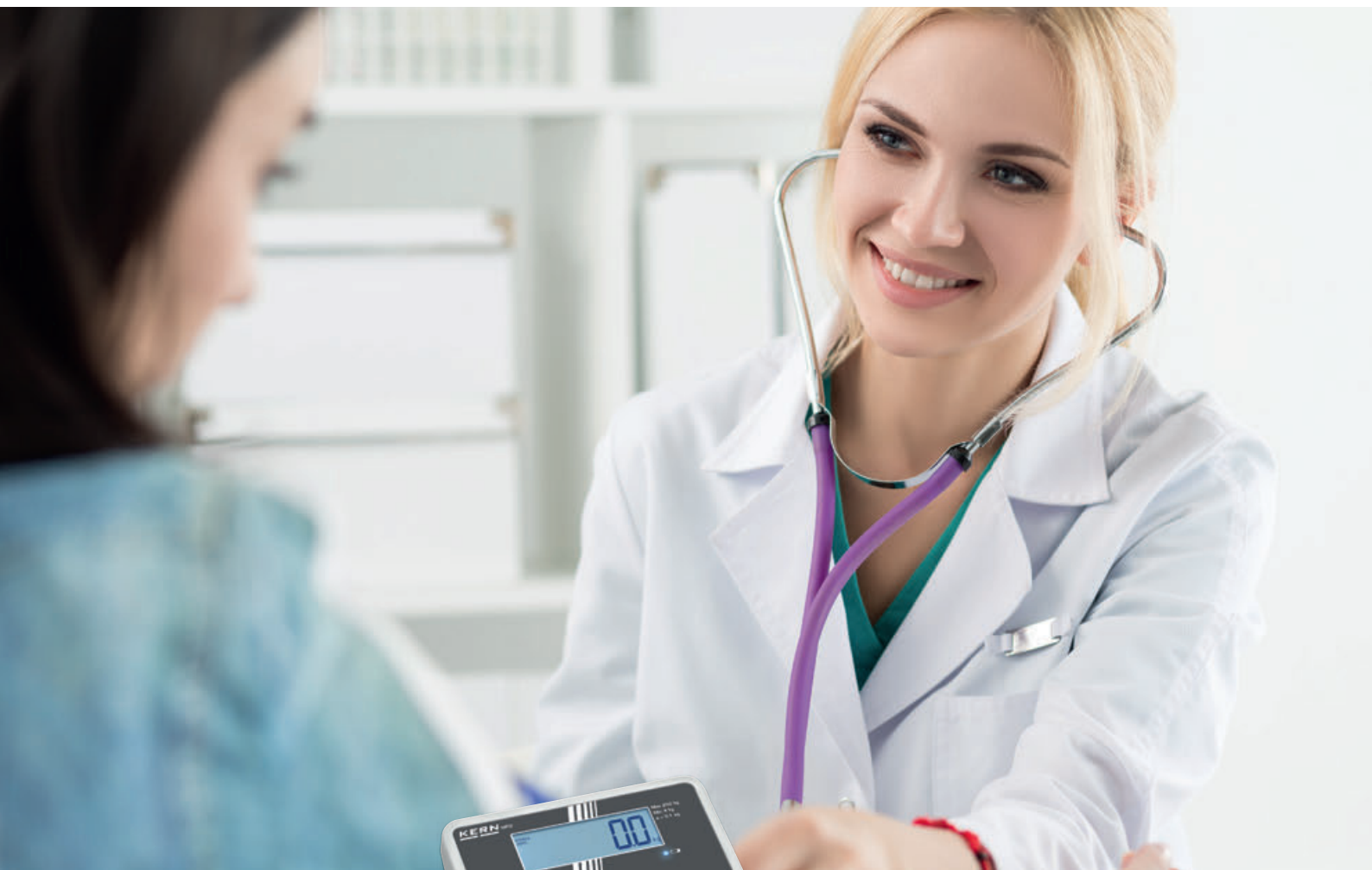
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|----------|---------|------|------|-------|--------|------|---------|----------|
| STANDARD |         |      |      |       | OPTION |      | FACTORY |          |
|          |         |      |      |       |        |      |         |          |
| GLP      | PRINTER | MOVE | BATT | MULTI | 1 DAY  | ACCU | RS 232  | M        |
|          |         |      |      |       |        |      |         | +3 DAYS* |

\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

| Model             | Weighing range<br>[Max]<br>kg | Readability<br>[d]<br>kg | Verification value<br>[e]<br>kg | Weighing plate<br>mm | Net weight<br>approx.<br>kg | Mandatory by law<br>Verification |         |
|-------------------|-------------------------------|--------------------------|---------------------------------|----------------------|-----------------------------|----------------------------------|---------|
|                   |                               |                          |                                 |                      |                             |                                  | KERN    |
| KERN MPC 250K100M | 250                           | 0,1                      | 0,1                             | 365×370×80 3         | 9                           |                                  | 965-129 |
| KERN MPC 300K-1M  | 300                           | 0,1                      | 0,1                             | 365×370×80 3         | 9                           |                                  | 965-129 |
| KERN MPC 300K-1LM | 300                           | 0,1                      | 0,1                             | 400×500×120 4        | 10                          |                                  | 965-129 |

Step-on personal floor scales KERN MPD · MPD-E

Professional step-on personal floor scales approved as a medical device and with EC type approval class III



**KERN MPD 250K100M**



**Features**

- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- **1** The bestseller for doctor's surgeries, chemists and hospitals: easy to use with no waste of time – simply tap on it, stand on it, read the weight
- Robust design for daily use in a professional environment
- Ergonomically optimised design
- Easy and hygienic cleaning
- Secure and non-slip positioning with height-adjustable rubber feet
- Level indicator to level the balance precisely
- **2** Large platform with non-slip and wear-resistant surface made of plastic, to provide a secure footing for patients
- Doctor scale MPD 200K-1EM: Identically to MPD 250K100M though without backlight and mains adapter, battery operation only, due to the reduced resolution faster display speed. Especially attractive in price!
- KERN MPD: Battery- or mains-powered, rechargeable battery operation optional
- Protective working cover included with delivery

**Technical data**

- Dimensions of weighing plate W×D×H 365×360×80 mm
- Dimensions of display device W×D×H 200×130×60 mm
- Net weight approx. 10 kg

**MPD-E**







- Large LCD display, without backlight, digit height 25 mm
- Battery operation, 6×1,5 V AA, operating time up to 20 h

**MPD**

- Large backlit LCD display, digit height 25 mm
- Battery operation possible, 6×1,5 V AA, not included, operating time up to 20 h
- Mains adapter external, standard

**Accessories**

- Protective working cover over the display device, scope of delivery: 5 items, KERN MBC-A06S05
- **3** Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection, quick-acting, on basis of modern quaternary ammonium compounds, and also against papova viruses. Particularly gentle on materials, and therefore very well suited for the disinfection of alcohol sensitive medical products. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01
- KERN MPD: Rechargeable battery pack internal, operating time up to 40 h, without backlight, charging time approx. 12 h, KERN MBC-A08
- KERN MPD: Mains adapter external, 100-240 V, 50/60 Hz, standard EU, CH, UK, KERN YKA-43
- KERN MPD: Mains adapter external, 100-240 V, 50/60 Hz, standard EU, KERN YKA-44

|  |   |   |
|--|---|---|
| STANDARD   | OPTION  | FACTORY   |
|  BATT  |  MULTI |  1 DAY   |
|  ACCU |  M     |  +3 DAYS |
| MPD  | MPD   | *   |

\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

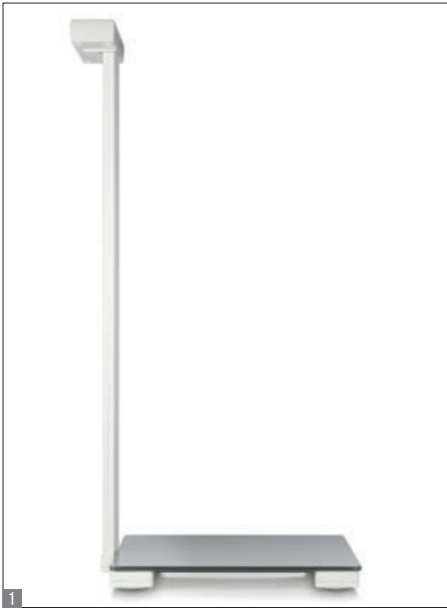
| Model         | Weighing range<br>[Max]<br>kg | Readability<br>[d]<br>kg | Verification value<br>[e]<br>kg | Mandatory by law<br>Verification   |  |
|---------------|-------------------------------|--------------------------|---------------------------------|--|--|
|               |                               |                          |                                 |  KERN |  |
| MPD 250K 100M | 250                           | 0,1                      | 0,1                             | 965-129  |  |
| MPD 200K-1EM  | 250                           | 0,2                      | 0,2                             | 965-129  |  |

Personal scales with column for convenient, ergonomically-optimised operation



**KERN MPL 200K-1P**

**KERN MPK 200K-1P**



**Features**

- This personal scale is the ideal measuring instrument for elderly care, paramedics, fitness clubs or in the private sector and can weigh overweight persons up to 250 kg
- The column, which is firmly fixed to the scale, makes it easy to operate the scale as well as to read the weighing results even under poor lighting conditions
- Sturdy glass weighing plate for secure, comfortable standing position
- Easy and hygienic cleaning
- **1** Particularly flat design facilitates access
- Easy to operate:  
simply tap – stand – read the weight
- Integrated AUTO-OFF function to preserve the batteries
- KERN MPL: BMI function to determine underweight/normal weight/surplus weight
- Weight displayed in kg or lb
- **2** Large high-contrast display that is easy to read
- KERN MPL: Adjusting function and tare function to zero the balance
- **3** Delivered in appealing packaging
- Adjusting program CAL for quick setting of the balance accuracy using an external test weight

**Technical data**

- LCD display, digit height 28 mm
- Dimensions of weighing plate W×D×H 350×350×45 mm
- Overall dimensions (incl. stand) W×D×H 350×420×955 mm
- Batteries included, 4×1,5 V AA, operating time up to 20 h
- Net weight approx. 3,8 kg

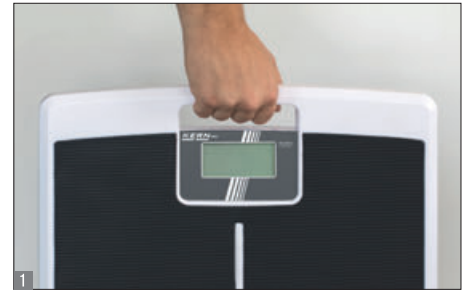
**Accessories**

- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection, quick-acting, on basis of modern quaternary ammonium compounds, and also against papova viruses. Particularly gentle on materials, and therefore very well suited for the disinfection of alcohol sensitive medical products. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01

STANDARD



| Model       | Weighing range |    | Readability |    |
|-------------|----------------|----|-------------|----|
|             | [Max]          | kg | [d]         | kg |
| KERN        |                |    |             |    |
| MPK 200K-1P | 250            |    | 0,1         |    |
| MPL 200K-1P | 250            |    | 0,1         |    |



Personal scale with particularly large, flat weighing plate to make it easier to step on and give maximum safety

**Features**

- This personal scale is the ideal measuring instrument for elderly care, paramedics or privat sector, and can weigh overweight persons up to 200 kg
- Very large weighing plate
- Easy and hygienic cleaning
- **1** The scale can be easily transported using a handle and does not require much storage space
- **2** Particularly flat design facilitates access
- Very large platform with non-slip and wear-resistant plastic-surface
- Easy to operate:  
simply tap – stand – read the weight
- Integrated AUTO-OFF function to preserve the batteries
- Weight displayed in kg or lb
- Large high-contrast display that is easy to read
- Delivered in appealing packaging
- **Note:** The models are only delivered in a set of 5 units. I.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually.

**Technical data**

- LCD display, digit height 30 mm
- Overall dimensions  
W×D×H 433×370×35 mm
- Batteries included, 4×1,5 V AAA, operating time up to 20 h
- Net weight approx. 3 kg

**Accessories**

- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection, quick-acting, on basis of modern quaternary ammonium compounds, and also against papova viruses. Particularly gentle on materials, and therefore very well suited for the disinfection of alcohol sensitive medical products. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01

STANDARD



| Model         | Weighing range | Readability |  |
|---------------|----------------|-------------|--|
| KERN          | [Max]<br>kg    | [d]<br>kg   |  |
| MPI 200K-1S05 | 200            | 0,1         |  |





The robust classic for quick determination of body weight

**Features**

- Timeless design
- Robust construction
- **1** Large, clear circular scale which is easy to read
- **2** Large platform with non-slip surface made of plastic
- Secure and non-slip positioning with rubber feet
- Easy to operate: stand – read the weight
- Easy adjustment of the display using the setting wheel
- Delivered in appealing packaging
- **Note:** The models are only delivered in a set of 5 units. I.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually.

**Technical data**

- Digit height 8 mm
- Overall dimensions W×D×H 285×425×85 mm
- Net weight approx. 3,1 kg

**Accessories**

- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection, quick-acting, on basis of modern quaternary ammonium compounds, and also against papova viruses. Particularly gentle on materials, and therefore very well suited for the disinfection of alcohol sensitive medical products. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01

STANDARD



| Model                               | Weighing range | Readability |  |
|-------------------------------------|----------------|-------------|--|
|                                     | [Max]<br>kg    | [d]<br>kg   |  |
| <b>KERN</b><br><b>MGC 100K-1S05</b> | 150            | 1           |  |



Elegant look combined with large, flat glass weighing plate to make it easier to step on and give maximum safety

**Features**

- Elegant design
- Sturdy glass weighing plate
- MGD-L: particularly large weighing plate for secure, comfortable standing position
- Easy and hygienic cleaning
- Particularly flat design facilitates access
- Generous weighing range
- Secure and non-slip positioning with rubber feet
- Easy to operate: simply tap – stand – read the weight
- Integrated AUTO-OFF function to preserve the batteries
- Weight displayed in kg or lb
- **1** Large high-contrast display that is easy to read
- **2** Delivered in appealing packaging
- **Note:** The models are only delivered in a set of 5 units. I.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually.

**Technical data**

- MGD 100K-1**
- LCD display, digit height 40 mm
  - Batteries included, 2×CR2032, operating time up to 100 h
- MGD 200K1L**
- LCD display, digit height 50 mm
  - Batteries included, 3×1,5 V AAA, operating time up to 100 h

**Accessories**

- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection, quick-acting, on basis of modern quaternary ammonium compounds, and also against papova viruses. Particularly gentle on materials, and therefore very well suited for the disinfection of alcohol sensitive medical products. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01

STANDARD



| Model                 | Weighing range | Readability | Weighing plate | Net weight |  |
|-----------------------|----------------|-------------|----------------|------------|--|
|                       | [Max]<br>kg    | [d]<br>kg   | mm             | kg         |  |
| <b>MGD 100K-1S05</b>  | 180            | 0,1         | 300×300×19     | 1,5        |  |
| <b>MGD 200K-1LS05</b> | 250            | 0,1         | 380×330×27     | 2          |  |



Design body analysis scale to determine body weight, body fat, body fluid, muscle mass, proportion of bone, BMI and metabolic rate/metabolic rate when exercising

**Features**

- Used to determine body fat, body water, muscle mass with an accuracy of 0.1 % as well as the body weight and bone mass in 0.1 kg increments
- Display showing the calorie requirements for maintaining the current body weight depending on the level of activity and sex
- Elegant design
- Sturdy glass weighing plate with four large contact surfaces for maximum precision
- Easy and hygienic cleaning
- Particularly flat design facilitates access
- Secure and non-slip positioning with rubber feet
- Easy to operate:  
simply tap – stand – read the weight
- Memory for up to 10 people (gender, age, height, level of activity)
- Integrated AUTO-OFF function to preserve the batteries
- Weight displayed in kg or lb
- **1** Large high-contrast display that is easy to read
- **2** Delivered in appealing packaging
- **Note:** The models are only delivered in a set of 5 units. I.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually.

**Technical data**

- LCD display, digit height 35 mm
- Overall dimensions  
W×D×H 300×300×25 mm
- Batteries included, 2×CR2032, operating time up to 100 h
- Net weight approx. 2 kg

**Accessories**

- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection, quick-acting, on basis of modern quaternary ammonium compounds, and also against papova viruses. Particularly gentle on materials, and therefore very well suited for the disinfection of alcohol sensitive medical products. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01

STANDARD



| Model          | Weighing range | Readability |  |
|----------------|----------------|-------------|--|
| KERN           | [Max]<br>kg    | [d]<br>kg   |  |
| MFB 150K100S05 | 182            | 0,1         |  |

Wheelchair platform scale KERN MWA

Wheelchair platform scale with two integrated access ramps for easy access – with EC type approval class III and approval for professional, stationary medical use in medical diagnostics



**KERN MWA 300K-1PM**



**KERN MWA 300K-1M**



KERN MWA 300K-1PM



4

**4** KERN MWA-A02: Handrail, without column, cannot be folded, for self-assembly on the KERN MWA 300K-1M wheelchair platform scale or MWA 300K-1PM. With the practical optional handrail set the KERN MWA 300K-1M wheelchair platform or MWA 300K-1PM can be converted quickly and easily into a multi-function scale. This allows for the patients to be weighed while standing on the scale, with support from the handrail or weighed in a wheelchair

**Features**

- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- Especially suitable for weighing patients in wheelchairs, because the low-profile platform can be approached from either side
- **1** The large steel weighing plate also makes it ideal for weighing obese patients
- Level indicator to level the balance precisely
- Hold function:  
When patients do not stand or sit completely still, a stable weight is calculated using an average weight and this is then “frozen”. This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- **MWA 300K-1PM:** Wheelchair platform scale with practical handrail incl. column for easy, ergonomic mounting of the display device. The handrail offers patients that extra level of safety when driving or stepping onto the weighing platform
- **2** Both access ramps and the handrail KERN MWA-A01 can be folded up quickly and easily, e.g. for transportation
- BMI function to determine underweight/normal weight/surplus weight

- Battery- or mains-powered, rechargeable battery operation optional
- High resolution readability: readability [d] for 5 sec. increased by one decimal place at the touch of a key
- **3** GLP/ISO report, printout of weight value, BMI, etc. with date and time. FLP/GMP-compliant print form in DE, GB, FR, only in combination with interface cable RS-232 KERN CFS-A01 and printer YKB-01N
- Protective working cover included with delivery

**Technical data**

- Large backlit LCD display, digit height 25 mm
- Dimensions of display device W×D×H 200×128×55 mm
- Overall dimensions, without handrail, W×D×H 1180×1130×90 mm
- Cable length of display device approx. 300 cm
- Battery operation possible, 6×1,5 V AA, not included, operating time up to 20 h
- Mains adapter external, standard
- Net weight approx. 76 kg

**Accessories**

- Protective working cover over the display device, scope of delivery: 5 items, KERN MBC-A06S05
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01
- Internal rechargeable battery pack, operating time up to 40 h, without backlight, charging time approx. 12 h, KERN MBC-A08
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, CH, UK, KERN YKA-43
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, KERN YKA-44
- Interface cable RS-232 to connect an external device, KERN CFS-A01
- **4** Handrail, lacquered steel, dimensions W×D×H approx. 560×40×920 mm, scope of supply: handrail, fasteners, net weight approx. 4 kg, KERN MWA-A02
- Matrix needle printer, KERN YKN-01
- Label printer, KERN YKE-01
- Thermal printer, KERN YKB-01N
- For further details, plenty of further accessories and suitable printers see Internet

STANDARD

OPTION

FACTORY

\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

| Model        | Weighing range<br>[Max]<br>kg | Readability<br>[d]<br>kg | Verification value<br>[e]<br>kg | Weighing surface<br>mm | Mandatory by law<br>Verification |  |
|--------------|-------------------------------|--------------------------|---------------------------------|------------------------|----------------------------------|--|
|              |                               |                          |                                 |                        | M III<br>KERN                    |  |
| MWA 300K-1M  | 300                           | 0,1                      | 0,1                             | 880×840                | 965-129                          |  |
| MWA 300K-1PM | 300                           | 0,1                      | 0,1                             | 880×840                | 965-129                          |  |



Fig. shows  
MWA 300K-1M + MWA-A04

Wheelchair scale with integrated ascending ramp and handrail set with folding patient seat – with EC type approval class III and approval for professional, stationary medical use in medical diagnostics

**Features**

- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- Particularly suitable for weighing patients in wheelchairs, thanks to the easy-drive-on platform with low overall height
- **1** The large steel weighing plate also makes it ideal for weighing obese patients
- Level indicator to level the balance precisely
- Hold function:  
When patients do not stand or sit completely still, a stable weight is calculated using an average weight and this is then “frozen”. This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- BMI function to determine underweight/normal weight/surplus weight
- Battery- or mains-powered, rechargeable battery operation optional
- High resolution readability: readability [d] for 5 sec. increased by one decimal place at the touch of a key
- 2 handrails with folding patient seat, for self-assembly on the KERN MWA 300K-1M wheelchair platform scale, Factory Option, please order together with the balance – it can not be equipped afterwards.

- With the two practical handrails including the integrated, folding patient seat, the KERN MWA 300K-1M can easily and quickly be converted into a multi-functional scale. In this way patients can be weighed standing up, with support from the handrail or in a comfortable seated position. Thanks to an integrated damper, the seat surface can gently be lowered. When folding the patient seat up, a wheelchair can be driven onto the scale. The strut rod which is included with the delivery ensures a high level of stability and torsional rigidity. The drive-through protection for the front wheels, which is included with the delivery, gives an extra level of safety
- **2** GLP/ISO report, printout of weight value, BMI, etc. with date and time. FLP/GMP-compliant print form in DE, GB, FR, only in combination with interface cable RS-232 KERN CFS-A01 and printer YKB-01N
- Protective working cover included with delivery

**Technical data**

- Dimensions W×D×H approx. 1132×880×960 mm (mounted)
- Dimensions of seating surface W×D 470×310 mm
- Height of the seat above the platform 460 mm
- Scope of supply: 2 handrails, strut rod, drive-through protection, folding seat, fasteners, Factory option, the assembly takes place in the factory KERN, the delivery is completely assembled on pallet
- Net weight approx. 84 kg

**Accessories**

- Protective working cover over the display device, scope of delivery: 5 items, KERN MBC-A06S05
- Internal rechargeable battery pack, operating time up to 40 h, without backlight, charging time approx. 12 h, KERN MBC-A08
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, CH, UK, KERN YKA-43
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, KERN YKA-44
- Interface cable RS-232 to connect an external device, KERN CFS-A01
- Matrix needle printer, KERN YKN-01
- Label printer, KERN YKE-01
- Thermal printer, KERN YKB-01N
- For further details, plenty of further accessories and suitable printers see Internet

|          |  |  |  |  |  |  |        |  |         |   |
|----------|--|--|--|--|--|--|--------|--|---------|---|
| STANDARD |  |  |  |  |  |  | OPTION |  | FACTORY |   |
|          |  |  |  |  |  |  |        |  |         | * |
|          |  |  |  |  |  |  |        |  |         |   |

\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

| Model       | Weighing range<br>[Max]<br>kg   | Readability<br>[d]<br>kg | Verification value<br>[e]<br>kg | Weighing surface<br>mm | Mandatory by law<br>Verification |      |
|-------------|---|--------------------------|---------------------------------|------------------------|----------------------------------|------|
|             |   |                          |                                 |                        |                                  | KERN |
| MWA 300K-1M | 300   | 0,1                      | 0,1                             | 880×840                | 965-129                          |      |
| MWA-A04     | Handrail set with folding patient seat, please order at the same time |                          |                                 |                        | -                                |      |



## Compact wheelchair platform scale with two integrated access ramps for easy access

### Features

- Especially suitable for weighing patients in wheelchairs because of the low-profile platform which can be approached from either side
- **1** The large steel weighing plate also makes it ideal for weighing obese patients
- Ideal also for rapid weighing of, e.g. laundry carts, container trolleys, roller containers, etc.
- Secure and non-slip positioning with height-adjustable rubber feet
- **2** Level indicator to level the balance precisely
- Hold function:  
When patients do not stand or sit completely still, a stable weight is calculated using an average weight and this is then “frozen”. This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- BMI function to determine underweight/normal weight/surplus weight
- **3** The scale can be easily transported using the two handles and two rollers and does not require much storage space
- Wall mount for the display device
- Protective working cover included with delivery

### Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions of display device W×D×H 200×130×60 mm
- Overall dimensions, W×D×H 1050×1050×100 mm
- Batteries included, 6×1,5 V AA, operating time up to 40 h
- Cable length of display device approx. 300 cm
- Net weight approx. 55 kg

### Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN MBC-A06S05
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01
- For more details see the internet

#### STANDARD



| Model             | Weighing range | Readability | Weighing surface |
|-------------------|----------------|-------------|------------------|
| <b>KERN</b>       | [Max]<br>kg    | [d]<br>kg   | mm               |
| <b>MWB 300K-1</b> | 300            | 0,1         | 800×800          |

Wheelchair platform scale and stretcher scale with low overall height for easy access – with EC type approval class III and approval for professional, mobile medical use in medical diagnostics



1 KERN MWS



2 KERN MWS-L





**Features**

- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- Especially suitable for weighing patients in wheelchairs because of the low-profile platform which can be approached from either side and the memory function for tare weights for up to five (power) wheelchairs
- **1** KERN MWS: Three balances in one: With the practical KERN MWS-A02 handrail set, the wheelchair platform scale MWS 300K100M can be converted quickly and easily into a multi-function scale. In this way patients can be weighed standing up on their own, using the support of the handrail or in a wheelchair. For a more ergonomic system the display device can be fitted directly onto the handrail
- **2** KERN MWS-L: Due to its large dimensions and large weighing range, it is especially suitable for weighing immobile patients on stretchers or wheelchairs
- The large steel weighing plate also makes it ideal for weighing obese patients
- Secure and non-slip positioning with height-adjustable rubber feet
- Level indicator to level the balance precisely

- Hold function: When patients do not stand or sit completely still, a stable weight is calculated using an average weight and this is then “frozen”. This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- BMI function to determine underweight/normal weight/surplus weight
- Can easily be transported using 2 rollers and a handle and also does not require much storage space.
- Display device with two magnets on the back, ideal to fix it to metallic surfaces, e.g. to the weighing plate during transportation
- Battery- or mains-powered, rechargeable battery operation optional
- Protective working cover included with delivery

- Mains adapter external, standard
- Cable length of display device approx. 180 cm

**Accessories**

- **1** Handrail set to fit to the wheelchair platform scale KERN MWS 300K100M, WxDxH approx. 1150x60x900 mm. Scope of delivery: two handrails, a stability bar, fasteners. KERN MWS-A02
- Stand to elevate display device, height of stand approx. 950 mm, KERN MWS-A01
- Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A02S05
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20x22 cm per cloth, KERN MYC-01
- Internal rechargeable battery pack, operating time up to 50 h, charging time approx. 24 h, KERN FOB-A08
- Interface cable RS-232 to connect an external device, KERN MPS-A08
- Matrix needle printer, KERN YKN-01
- Label printer, KERN YKE-01
- Thermal printer, KERN YKB-01N
- For further details, plenty of further accessories and suitable printers see Internet

**Technical data**

- LCD display, digit height 25 mm
- Dimensions of display device WxDxH 210x110x50 mm
- Overall dimensions MWS 300K100M BxTxH 1155x800x66 mm
- MWS 400K 100DM BxTxH 1255x1060x69 mm
- MWS 300K-1LM BxTxH 1500x860x68 mm
- Overall dimensions incl. MWS-A02 WxDxH 1155x820x1070 mm
- Battery operation possible, 6x1,5 V AA, not included, operating time up to 50 h

|          |      |      |       |        |        |         |         |   |
|----------|------|------|-------|--------|--------|---------|---------|---|
| STANDARD |      |      |       |        | OPTION |         | FACTORY |   |
|          |      |      |       |        |        |         |         | * |
| RS 232   | MOVE | BATT | MULTI | 2 DAYS | ACCU   | +3 DAYS |         |   |

\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

| Model                | Weighing range<br>[Max]<br>kg | Readability<br>[d]<br>kg | Verification value<br>[e]<br>kg | Weighing surface<br>mm | Net weight<br>approx.<br>kg | Mandatory by law<br>Verification |  |
|----------------------|-------------------------------|--------------------------|---------------------------------|------------------------|-----------------------------|----------------------------------|--|
|                      |                               |                          |                                 |                        |                             | KERN                             |  |
| <b>KERN</b>          |                               |                          |                                 |                        |                             |                                  |  |
| <b>MWS 300K100M</b>  | 300                           | 0,1                      | 0,1                             | 900x740                | 30                          | 965-129                          |  |
| <b>MWS 400K100DM</b> | 300   400                     | 0,1   0,2                | 0,1   0,2                       | 1000x1000              | 44                          | 965-130                          |  |
| <b>MWS 300K-1LM</b>  | 300                           | 0,1                      | 0,1                             | 1200x800               | 42                          | 965-129                          |  |

Sturdy handrail scale for a secure feeling during weighing – with EC type approval class III and approval for professional medical use in medical diagnostics





**Features**

- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- Ideal for care homes, centres for geriatric medicine, internal medicine and many more
- 1 The sturdy support structure helps fragile and weak patients to stand safely and, at the same time, allows a precise determination of the patients' weight
- Large surface, for the patient to have the most secure footing, hygienic and easy to clean
- Particularly easy access to the platform through its low height of just 30 mm
- Level indicator to level the balance precisely
- Hold function:  
When patients do not stand or sit completely still, a stable weight is calculated using an average weight and this is then "frozen". This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- 2 Practical second display on the back of the balance, which makes it easy for both the patient and the doctor or nursing staff to read the weight

- BMI function to determine underweight/normal weight/surplus weight
- Ergonomic display device with large keys and a high-contrast LCD display for easy entry and reading of patient data or the height for calculating the BMI
- Battery- or mains-powered, rechargeable battery operation optional
- Protective working cover included with delivery

**Technical data**

- Large backlit LCD display, digit height 25 mm
- Dimensions of weighing plate W×D×H 780×680×68 mm
- Dimensions of weighing surface W×D 600×600 mm
- Dimensions of display device W×D×H 200×128×55 mm
- Overall dimensions W×D×H 780×680×1100 mm
- Battery operation possible, 6×1,5 V AA, not included, operating time up to 50 h
- Mains adapter external, standard
- Net weight approx. 40 kg

**Accessories**

- Protective working cover over the display device, scope of delivery: 5 items, KERN MPE-A01S05
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection, quick-acting, on basis of modern quaternary ammonium compounds, and also against papova viruses. Particularly gentle on materials, and therefore very well suited for the disinfection of alcohol sensitive medical products. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01
- Rechargeable battery pack internal, operating time up to 40 h without backlight, charging time approx. 12 h, KERN MBC-A08
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, CH, UK, KERN YKA-43
- Mains adapter external, 100-240 V, 50/60 Hz, standard EU, KERN YKA-44
- Interface cable RS-232 to connect an external device, KERN CFS-A01
- Matrix needle printer, KERN YKN-01
- Label printer, KERN YKE-01
- Thermal printer, KERN YKB-01N
- Further details, see Internet

STANDARD



OPTION



FACTORY



\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

| Model               | Weighing range           | Readability            | Verification value     | Mandatory by law Verification |  |
|---------------------|--------------------------|------------------------|------------------------|-------------------------------|--|
|                     |                          |                        |                        | M<br>KERN                     |  |
| KERN<br>MTA 400K-1M | [Max]<br>kg<br>300   400 | [d]<br>kg<br>0,1   0,2 | [e]<br>kg<br>0,1   0,2 | 965-130                       |  |

Mobile chair scale with four wheels – with EC type approval class III and approval for professional medical use in medical diagnostics





**Features**

- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- **1** Mobile version with locking brakes on all wheels
- With its four wheels, this chair scale provides maximum mobility in bringing the scale to the patient. This ensures more efficient use of time for the clinic staff and greater safety for the patients who can be weighed in their familiar environment
- The four steerable rollers, with their large diameter, make it easier to get over door thresholds, edges and across the gaps into elevators
- This chair scale is the ideal measuring instrument for retirement homes, rehabilitation centres and clinics with lots of patients, and can weigh overweight persons up to 300 kg
- For fragile patients, the comfortable, ergonomically optimised seat offers secure support during weighing
- **2** Two foldable armrests and footrests make transfers into the chair easier. Ideal for overweight patients or barrier-free use, e.g. for transfers from a bed to the scale

- Hold function: When patients do not sit completely still, a stable weight is calculated using an average weight and this is then “frozen”. This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- BMI function to determine underweight/normal weight/surplus weight
- High resolution readability: readability [d] for 5 sec. increased by one decimal place at the touch of a key
- Protective working cover included with delivery

**Technical data**

- **3** LCD display, digit height 25 mm
- Dimensions of display device W×D×H 210×110×50 mm
- Dimensions of seat surface W×D 380×360 mm
- Overall dimensions W×D×H 647×860×910 mm
- Battery operation possible, 6×1,5 V AA, not included, operating time up to 70 h
- Mains adapter external, standard
- Net weight approx. 22 kg

**Accessories**

- Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A02S05
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01
- Internal rechargeable battery pack, operating time up to 50 h, charging time approx. 24 h, KERN FOB-A08
- Interface cable RS-232 to connect an external device, KERN MPS-A08
- Matrix needle printer, KERN YKN-01
- Label printer, KERN YKE-01
- Thermal printer, KERN YKB-01N
- For further details, plenty of further accessories and suitable printers see Internet

|          |      |      |       |        |        |   |         |   |
|----------|------|------|-------|--------|--------|---|---------|---|
| STANDARD |      |      |       |        | OPTION |   | FACTORY |   |
|          |      |      |       |        |        |   |         | * |
| RS 232   | MOVE | BATT | MULTI | 2 DAYS | ACCU   | M |         |   |

\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

| Model               | Weighing range | Readability | Verification value | Mandatory by law Verification |         |
|---------------------|----------------|-------------|--------------------|-------------------------------|---------|
|                     |                |             |                    |                               | KERN    |
| KERN                | [Max]<br>kg    | [d]<br>kg   | [e]<br>kg          |                               |         |
| <b>MCB 300K100M</b> | 300            | 0,1         | 0,1                |                               | 965-129 |

Ergonomically optimised chair scale – with EC type approval class III and approval for professional medical use in medical diagnostics





**Features**

- Verification class III (verification is optional)
- Approved as a medical device according to 93/42/EEC
- This chair scale is the ideal measuring instrument for retirement homes, rehabilitation centres and clinics with lots of patients, and can weigh overweight persons up to 250 kg
- **1** Mobile version with 2 steerable rollers and particularly convenient locking brakes at the rear
- With its four wheels, this chair scale provides maximum mobility in bringing the scale to the patient. This ensures more efficient use of time for the clinic staff and greater safety for the patients, who can be weighed in their familiar environment
- The rollers, with their large diameter, make it easier to get over door thresholds, edges and across the gaps into elevators
- For fragile patients, the comfortable, ergonomically optimised seat offers secure support during weighing
- Because of the clearly contrasting black colour of the seating surface, footrests and armrests ideally suitable for dementia patients

- **2** Two foldable armrests and footrests make transfers into the chair easier. Ideal for overweight patients or barrier-free use, e.g. for transfers from a bed to the scale
- Ergonomically positioned carrying handles
- Hold function: When patients do not sit completely still, a stable weight is calculated using an average weight and this is then “frozen”. This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- BMI function to determine underweight/normal weight/surplus weight
- High resolution readability: readability [d] for 5 sec. increased by one decimal place at the touch of a key
- Protective working cover included with delivery

- Rechargeable battery pack internal, standard, operating time up to 40 h without backlight, charging time approx. 12 h
- Battery operation possible, 6x1,5 V AA, not included, operating time up to 20 h
- **4** Mains adapter, external, included, with strain relief and disconnecter plug to protect the power supply components
- Net weight approx. 24 kg

**Accessories**

- **5** Practical mains adapter pouch to store the mains adapter which is supplied as standard. Fitting option using two Velcro fasteners, KERN MCC-A01
- Protective working cover over the display device, scope of delivery: 5 items, KERN MBC-A06S05
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20x22 cm per cloth, KERN MYC-01

**Technical data**

- **3** Large backlit LCD display with digit height 25 mm
- Dimensions of display device WxDxH 200x130x60 mm
- Dimensions of seat surface WxD 360x390 mm
- Overall dimensions WxDxH 625x990x985 mm

STANDARD FACTORY

\* Within the EU, official verification is mandatory by law for scales that are intended for use as a medical device. Please add this to your order. We require the location of use and the post code for the verification.

| Model                    | Weighing range     | Readability      | Verification value | Mandatory by law Verification |  |
|--------------------------|--------------------|------------------|--------------------|-------------------------------|--|
|                          |                    |                  |                    | KERN                          |  |
| <b>KERN MCC 250K100M</b> | [Max]<br>kg<br>250 | [d]<br>kg<br>0,1 | [e]<br>kg<br>0,1   | 965-129                       |  |

Mobile chair scale in ergonomically-optimised design for safe, convenient weighing







**Features**

- This chair scale is the ideal measuring instrument for elderly care and paramedics and is also suitable for overweight persons with a weight up to 300 kg
- **1** Mobile version with 4 rollers and particularly convenient locking brakes on both rear wheels
- With its four wheels, this chair scale provides maximum mobility by bringing the scale to the patient. This ensures more efficient use of time for the staff and greater safety for the patients who can be weighed in their familiar environment
- The rollers, with their large diameter, make it easier to get over door thresholds, edges and across the gaps into elevators
- For fragile patients, the comfortable, ergonomically optimised seat offers secure support during weighing
- Because of the clearly contrasting black colour of the seating surface and footrests ideally suitable for dementia patients

- **2** Two foldable armrests and footrests make transfers into the chair easier. Ideal for overweight patients or barrier-free use, e.g. for transfers from a bed to the scale
- Ergonomically positioned carrying handles
- Hold function:  
When patients do not sit completely still, a stable weight is calculated using an average weight and this is then “frozen”. This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- BMI function to determine underweight/normal weight/surplus weight
- Practical battery operation using standard batteries ensures a high level of flexibility and freedom from mains adapters, sockets, chargers, etc.
- High resolution readability: readability [d] for 5 sec increased by one decimal place at the touch of a key
- Protective working cover included with delivery

**Technical data**

- **3** LCD display, digit height 25 mm
- Dimensions of display device W×D×H 200×130×60 mm
- Dimensions of seat surface W×D 360×390 mm
- Overall dimensions W×D×H 625×990×985 mm
- Batteries included, 6×1,5 V AA, operating time up to 20 h
- Net weight approx. 20 kg

**Accessories**

- Protective working cover over the display device, scope of delivery: 5 items, KERN MBC-A06S05
- Practical pocket to fix on the back of the chair, e.g. for the user instructions, cleaning cloths, etc. KERN MCC-A01
- Cleaning cloths, alcohol-free cleaning cloths for wipe disinfection. Fulfill the legal requirements for occupational safety in accordance with TRGS 525/540. Packaging contents 80 pcs., size 20×22 cm per cloth, KERN MYC-01

STANDARD



| Model      | Weighing range | Readability |  |
|------------|----------------|-------------|--|
| KERN       | [Max]<br>kg    | [d]<br>kg   |  |
| MCD 300K-1 | 300            | 0,1         |  |



## Hospital need

### **KERN scales and measuring instruments for clinics, medical practices and rehabilitation facilities**

Reliable scales are not only required in direct contact with patients, but also in adjacent areas such as laboratories, research, pathology, hospital laundries, etc. a wide variety of scales are used. These scales also have to meet high requirements, such as robust, dirt-repellent stainless steel surfaces that are hygienic and easy to clean. Simple operation and clearly legible displays speed up daily work, save costs and help to avoid mistakes.

The practical dynamometers, which we offer in various designs and measuring ranges, are particularly suitable for measuring muscle forces in the context of rehabilitation measures.



**Page 43**



## Stainless steel drive-through scale with two integrated access ramps and EC type approval [M]

### Features

- Robust stainless steel drive-through scale for rapid weighing of e.g. laundry carts, container trolleys, roller containers, etc. Ideal for hospital laundry services, goods inwards, hospital kitchens, etc.
- Low platform height and integrated access ramps on both sides facilitate access. No need for pit frame installation – which saves money
- Weighing bridge stainless steel, extremely resistant to bending
- **1** 4 load cells steel, encapsulated. Protection against dust and water splashes IP68, suitable for continuous use in wet areas
- **2** Stainless steel display device with protection against dust and water splashes IP65
- Superior display size: digit height 52 mm. Bright backlight for easy reading of weight, even in poor lighting conditions
- Easy and hygienic cleaning
- Suitable for the ever-increasing hygienic requirements in the medical environment
- Totalising of weights and piece counts

### Technical data

- Large backlit LCD display, digit height 52 mm
- Overall dimensions W×D×H 1600×1200×80 mm
- Weighing surface, without access ramps W×D 1000×1000 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

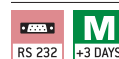
### Accessories

- Rechargeable battery pack internal, operating time up to 35 h without backlight, charging time approx. 10 h, must be ordered at purchase, KERN GAB-A04
- **3** Stand to elevate display device, stainless steel, height-adjustable, height of stand 750–1000 mm, KERN BFN-A04
- Pair of base plates to fix the weighing bridge to the floor, KERN BFN-A03
- Large display with superior display size, only in combination with KFN-A01, please refer to KERN's website for more details. KERN YKD-A02
- Cable with special length 15 m, between display device and platform, must be ordered at purchase, KERN BFB-A03
- Data interface RS-232, interface cable included, approx. 1.5 m, must be ordered at purchase, KERN KFN-A01
- Matrix needle printer, KERN YKN-01
- Label printer, KERN YKE-01
- Thermal printer, KERN YKB-01N
- For further details, plenty of further accessories and suitable printers see Internet

#### STANDARD



#### FACTORY



| Model              | Weighing range<br>[Max]<br>kg | Readability<br>[d]<br>g | Verification value<br>[e]<br>g | Minimum load<br>[Min]<br>g | Net weight<br>kg | Mandatory by law<br>Verification |  |
|--------------------|-------------------------------|-------------------------|--------------------------------|----------------------------|------------------|----------------------------------|--|
|                    |                               |                         |                                |                            |                  | <b>M III</b><br>KERN             |  |
| <b>KERN</b>        |                               |                         |                                |                            |                  |                                  |  |
| <b>NFN 600K-1M</b> | 600                           | 200                     | 200                            | 4000                       | 125              | 965-230                          |  |
| <b>NFN 1.5T-4M</b> | 1500                          | 500                     | 500                            | 10000                      | 135              | 965-230                          |  |



## Organ scale stainless steel and IP68 protected – now with improved accuracy

### Features

- Particularly suitable to determine the specific weight of organs, tissues, etc. in pathology or in the laboratory
- Tough industry standard suitable for use in harsh industrial applications
- IP68 protection: very high type of protection against dust and water. Making it very robust and durable. Ideal for harsh ambient conditions. Submersion in water even possible
- Stainless steel housing, rust-proof and easy to clean
- Very fast display: steady weight values within 2 sec
- High mobility: Battery operation, compact construction and low weight make this balance ideal for use in several locations
- Carrying grips on the underside of the scale for easy transportation

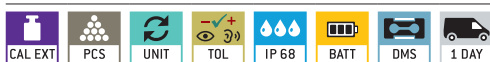
### Technical data

- Large LCD display, digit height 25 mm
- Dimensions of weighing plate, stainless steel WxD 236x195 mm
- Overall dimensions WxDxH 240x280x120 mm
- Ready for use: Batteries included, 4x1,5 V size D, operating time without backlight FXN-N up to 250 h, FXN-M up to 625 h, AUTO-OFF function to preserve the batteries, can be switched off
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

### Accessories

- Tare pan made of stainless steel, ideal for weighing organs, tissues, etc. WxDxH 370x240x20 mm, KERN RFS-A02

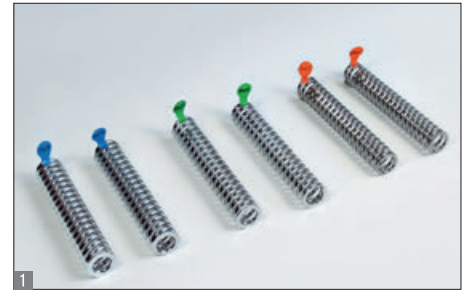
STANDARD



FACTORY



| Model                            | Weighing range<br>[Max]<br>kg | Readability<br>[d]<br>g | Verification value<br>[e]<br>g | Minimum load<br>[Min]<br>g | Option Verification |  |
|----------------------------------|-------------------------------|-------------------------|--------------------------------|----------------------------|---------------------|--|
|                                  |                               |                         |                                |                            | M<br>KERN           |  |
| KERN                             |                               |                         |                                |                            |                     |  |
| FXN 3K-4N                        | 3                             | 0,5                     | -                              | -                          | -                   |  |
| FXN 6K-3N                        | 6                             | 1                       | -                              | -                          | -                   |  |
| FXN 10K-3N                       | 15                            | 2                       | -                              | -                          | -                   |  |
| FXN 30K-3N                       | 30                            | 5                       | -                              | -                          | -                   |  |
| Models with EC type approval [M] |                               |                         |                                |                            |                     |  |
| FXN 3K-3M                        | 3                             | 1                       | 1                              | 20                         | 965-227             |  |
| FXN 6K-3M                        | 6                             | 2                       | 2                              | 40                         | 965-228             |  |
| FXN 10K-3M                       | 15                            | 5                       | 5                              | 100                        | 965-228             |  |
| FXN 30K-2M                       | 30                            | 10                      | 10                             | 200                        | 965-228             |  |



## Hand grip dynamometer, e.g. for rehabilitation treatment after accidents

### Features

- Especially suitable for use in rehabilitation clinics for determining manual clamping force
- There are four measuring methods, for example, as part of a rehabilitation program, help the medical staff to monitor the strength of the patient's hands and carry out controlled training:
  - Real time mode: immediately shows the client's current strength
  - Peak/Max mode: shows the maximum strength of a client's grip
  - Average mode: Calculates the average strength from two grips
  - Counting mode: Counts the number of presses which exceed a previously defined strength limit
- An ideal device to determine reduced handstrength and a possible mortality risk of elderly persons as well as a malnutrition in case of chemotherapy or similar treatments.
- Safe, comfortable use thanks to non-slip rubber grips
- Integrated AUTO-OFF function after 1 minute to preserve the batteries
- Result displayed in kg or lb
- MAP 80K1S: Special version for children: The small handle depth allows children in particular to easily and ergonomically grip the handles
- MAP 130K1: Special version for body builders: Its design and extended measuring range mean that it offers additional capacity, which can accommodate the higher fundamental force exerted by body builders
- **1** Exchangeable springs facilitate fast switching of the capacity (additional spring sets are included with delivery). The varying rigidity of the individual springs makes the hand grip dynamometer ideal for a wide variety of patient groups, e.g. children or senior citizens or in sports medicine
- **2** Stable case for safe, easy transport and for storage of the additional spring sets, standard, W×D×H 350×265×85 mm

### Technical data

- LCD display, digit height 12 mm
- Batteries included, 1×CR2450, operating time up to 53 h
- Net weight approx. 0.3 kg

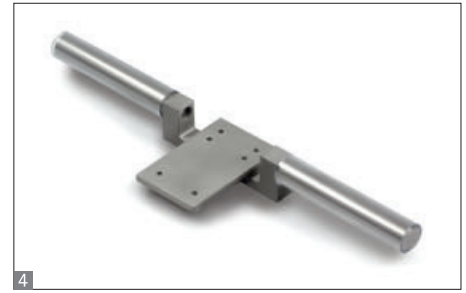
#### STANDARD



| Model            | Measuring range<br>[Max]<br>kg | Readability<br>[d]<br>kg | Spring sets<br>kg | Overall dimensions<br>W×D×H<br>mm | Option<br>ISO Calibr. Certificate |  |
|------------------|--------------------------------|--------------------------|-------------------|-----------------------------------|-----------------------------------|--|
|                  |                                |                          |                   |                                   | ISO<br>KERN                       |  |
| <b>MAP 80K1S</b> | 80                             | 0,1                      | 10, 20, 40, 80    | 55×88×212                         | 961-167                           |  |
| <b>MAP 80K1</b>  | 80                             | 0,1                      | 20, 40, 80        | 55×102×212                        | 961-167                           |  |
| <b>MAP 130K1</b> | 130                            | 0,1                      | 40, 80, 130       | 55×102×212                        | 961-167                           |  |



See images for dynamometers with optional accessories AC 45-47



## Force measurement for medical applications

### Features

- Determining muscle function and force is used within many areas of medical diagnostics. Amongst others, in
  - orthopaedics for determining the function of the musculoskeletal system
  - physiotherapy for restoring motivity
  - occupational therapy for treating physical damage
- Within sport, measuring muscular force development can be used alongside training
- These measurements can be supported by the SAUTER FK (alternatively SAUTER FH) force gauge when connected with the three physio sensors (AC 45, AC 46, AC 47) as shown
- These sensors to measure muscular strength have been designed in an ergonomic manner. The surface is made of soft foam rubber, which sits comfortably on the skin
- Connecting the precision measuring device with the optional stainless steel handles SAUTER AFK 02 | AFH 04 means that you can obtain reliable weighing results
- Our recommendation: Combine the force measuring device (Sauter FK or FH) with the stainless steel handles (Sauter AFK 02 or AFH 04, depending on the force measuring device selected) and one or more physio sensors (AC 45, AC 46, AC 47)
- All components can be ordered individually

#### STANDARD FK



#### STANDARD FH



#### OPTION FH



| Model         | Measuring range [Max] N | Readability [d] N |
|---------------|-------------------------|-------------------|
| SAUTER FK 50. | 50                      | 0,02              |
| FK 100.       | 100                     | 0,05              |
| FK 250.       | 250                     | 0,1               |
| FK 500.       | 500                     | 0,2               |
| FK 1K.        | 1000                    | 0,5               |
| FH 50.        | 50                      | 0,01              |
| FH 100.       | 100                     | 0,05              |
| FH 200.       | 200                     | 0,1               |
| FH 500.       | 500                     | 0,1               |

| Model           | Description   |
|-----------------|---|
| SAUTER 4 AFK 02 | Stainless steel handle with plastic coating for force measuring devices SAUTER FK |
| 4 AFH 04        | Stainless steel handle with plastic coating for force measuring devices SAUTER FH |

| Model          | Description  |
|----------------|--|
| SAUTER 1 AC 45 | Concave force sensor with optimised radius for measurement, particularly of arms and legs, up to 1kN |
| 2 AC 46        | Flat square-shaped sensor for lateral power sensing e.g. of back, chest or arm, up to 1 kN           |
| 3 AC 47        | Round sensor to measure particular muscle groups, such as, for example, the shoulder, up to 1 kN     |



## KERN Microscopes and Refractometers

KERN offers you a complete, carefully compiled range of biological microscopes, stereomicroscopes, metallurgical microscopes, polarization microscopes, particularly flexible, pre-configured stereomicroscope sets, individually configurable stereomicroscope systems as well as microscope cameras and camera software.

The main fields of application are haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, oncology, cell and tissue culture research and breeding, veterinary medicine, etc.

The KERN high-performance microscopes are particularly suitable for viewing preparations in culture vessels (bottles, trays, microtiter plates), translucent and thin, low-contrast, demanding preparations (e.g. living Mammalian cells, tissue, possibly also microorganisms, immunofluorescence, FISH, DAPI coloring etc.)

Furthermore, KERN offers a wide range of analogue and digital refractometers. Quickly and easily determine reliable measured values, no matter whether in the laboratory or on site, this ensures safety, consistent quality and accelerates the processes. This is what the analogue and digital refractometers from KERN stand for, and at an extremely attractive price in consistently high quality. The refractometers are mainly used in hospitals, doctors' surgeries, medical training facilities, nursing homes, sports medicine (doping control), veterinary surgeries, etc.



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! Illustration shows optional accessories, tablet with integrated camera KERN ODC 241, further details see Internet

Elegant, dynamic and impressive – the new all-round compound microscope for schools, training and laboratories

**Features**

- The OBE-12/13 range stands out through its exclusive, dynamic device, which is second to none in terms of sturdy construction and ergonomics. The clever storage compartment on the back enables quick practical storage for your power cable. Thanks to the USB connection technology, it is also possible to supply power using an external powerbank
- The impressive, infinitely dimmable 3 W LED guarantees bright illumination of your sample
- A further highlight is the Butterfly tube which is integrated as standard and which enables you to achieve the ideal viewing angle. The height-adjustable and thereby focusable 1.25 Abbe condenser with aperture diaphragm is a further quality feature of the OBE range and guarantees the very best concentration of light
- Height adjustment of the fully-equipped mechanical stage is carried out using a coarse and fine focusing knob on both sides. The ergonomically designed coaxial drive enables you to work with the samples and move them rapidly
- A large selection of different eyepieces and objectives are available to you as accessories
- 1 Monocular version, 2 Trinocular version, 3 Butterfly tube
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of the delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the model outfit list, see Internet

**Scope of application**

- Training, haematology, sediment investigation, doctor's practise

**Applications/Samples**

- Translucent, thin, high-contrast, less complex samples (e.g. plant tissue, coloured cells/parasites)

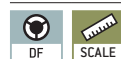
**Technical data**

- Finite optical system
- Quadplex nosepiece
- Butterfly 30° inclined
- Diopter adjustment: One-sided (for binocular and trinocular models)
- Overall dimensions W×D×H 360×150×320 mm
- Net weight approx. 4,6 kg

STANDARD



OPTION



| Model          | Standard configuration |                 |                   |                 |                      |
|----------------|------------------------|-----------------|-------------------|-----------------|----------------------|
|                | Tube                   | Eyepiece        | Objective quality | Objectives      | Illumination         |
| <b>KERN</b>    |                        |                 |                   |                 |                      |
| <b>OBE 121</b> | Monocular              | HWF 10×/ø 18 mm | Achromatic        | 4×/10×/40×      | 3W LED (transmitted) |
| <b>OBE 122</b> | Binocular              | HWF 10×/ø 18 mm | Achromatic        |                 | 3W LED (transmitted) |
| <b>OBE 124</b> | Trinocular             | HWF 10×/ø 18 mm | Achromatic        |                 | 3W LED (transmitted) |
| <b>OBE 131</b> | Monocular              | HWF 10×/ø 18 mm | Achromatic        | 4×/10×/40×/100× | 3W LED (transmitted) |
| <b>OBE 132</b> | Binocular              | HWF 10×/ø 18 mm | Achromatic        |                 | 3W LED (transmitted) |
| <b>OBE 134</b> | Trinocular             | HWF 10×/ø 18 mm | Achromatic        |                 | 3W LED (transmitted) |





Also available as digital, trinocular and phase contrast model. KERN OBL-1 also available with EPI fluorescence illumination unit on request



The high-performance compound microscope for every laboratory, hospital and doctor's practice with fixed, pre-centred Koehler illumination

**Features**

- The KERN OBF-1 and OBL-1 models are excellent, stable laboratory microscopes for all common routine applications
- Depending on the application, there is a choice of models with strong, continuously dimmable 3 W LED or 20 W halogen illumination (Philips)
- **1** Trinocular models as well as specially pre-configured phase contrast models available, please feel free to contact us
- The fixed, pre-centred and focusable 1,25 Abbe condenser with aperture diaphragm and field diaphragm gives you a simplified Koehler illumination, the centre can not be moved
- The large mechanical stage and its specimen holder holds up to two samples at the same time, which can be focused quickly and easily by a coaxial coarse and fine drive on both sides

- A large selection of eyepieces, **2** objectives and colour filters as well as a darkfield condenser, a simple **3** polarising unit, different **4** phase contrast kits through to HBO and LED fluorescence units are available to you as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the model outfit list

Please refer to the website for further details as well as information on the full range of model features

**Scope of application**

- Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, oncology, entomology, vets, water analysis, breweries, sewage plants

**Applications/Samples**

- Translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissues)

**Technical data**

- Finite optical system DIN (OBF)/ Infinity optical system (OBL)
- Quadplex nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: One-sided
- Overall dimensions W×D×H 395×200×380 mm
- Net weight approx. 6,7 kg

STANDARD



OPTION



| Model           | Standard configuration |                 |                   |                     |                                |   |
|-----------------|------------------------|-----------------|-------------------|---------------------|--------------------------------|---|
|                 | Tube                   | Eyepiece        | Objective quality | Objectives          | Illumination                   |   |
| <b>KERN</b>     |                        |                 |                   |                     |                                |   |
| <b>OBF 121*</b> | Binocular              | HWF 10×/ø 18 mm | Achromatic        | 4×/10×/<br>40×/100× | 6 V/20 W Halogen (transmitted) | ↓ |
| <b>OBF 122*</b> | Binocular              | HWF 10×/ø 18 mm | Plan              |                     | 6 V/20 W Halogen (transmitted) | ↓ |
| <b>OBF 123*</b> | Binocular              | HWF 10×/ø 18 mm | Plan              |                     | 3 W LED (transmitted)          | ↓ |
| <b>OBF 131*</b> | Trinocular             | HWF 10×/ø 18 mm | Achromatic        |                     | 6 V/20 W Halogen (transmitted) | ↓ |
| <b>OBF 132*</b> | Trinocular             | HWF 10×/ø 18 mm | Plan              |                     | 6 V/20 W Halogen (transmitted) | ↓ |
| <b>OBF 133*</b> | Trinocular             | HWF 10×/ø 18 mm | Plan              |                     | 3 W LED (transmitted)          | ↓ |
| <b>OBL 125</b>  | Binocular              | HWF 10×/ø 20 mm | Infinity E-Plan   |                     | 6 V/20 W Halogen (transmitted) |   |
| <b>OBL 127</b>  | Binocular              | HWF 10×/ø 20 mm | Infinity E-Plan   |                     | 3 W LED (transmitted)          |   |
| <b>OBL 135</b>  | Trinocular             | HWF 10×/ø 20 mm | Infinity E-Plan   |                     | 6 V/20 W Halogen (transmitted) |   |
| <b>OBL 137</b>  | Trinocular             | HWF 10×/ø 20 mm | Infinity E-Plan   |                     | 3 W LED (transmitted)          |   |

! \* ONLY WHILE STOCKS LAST!

Order Hotline: Go to back page of catalogue



OBN-13



OBN-15



Professionalism and versatility united in one microscope – with Koehler illumination for demanding applications

! Also available as fluorescence microscope

**Features**

- The OBN series stands out because of its unbeatable and consistently high quality and its ergonomic design. The range of modular components means that the OBN series can be individually customised for the professional user
- Depending on the application, there is a choice of models with strong, continuously dimmable 3 W LED or 20 W halogen transmitted illumination (Philips)
- In addition the halogen variant is available as a pre-configured phase contrast microscope, which, through the combination of a 2 professional quintuple condenser wheel, phase contrast condenser and Infinity Plan phase contrast objectives makes it a high-quality, fully-equipped microscope for all applications related to contrast procedures
- 1 This series has a professional Koehler illumination unit with an adjustable field diaphragm as well as a height-adjustable 1,25 Abbe condenser which can be centred and which has an adjustable aperture diaphragm
- The extremely large mechanical stage with ergonomic, coaxial coarse and fine focusing knob on both sides enables you to adjust and focus your sample rapidly and accurately
- A wide variety of modular systems, such as, for example, a swing-out condenser, various eyepieces, objectives, colour filters, phase contrast units, a darkfield condenser, a simple polarising unit, Butterfly Tube, through to complete fluorescence units are available to you as accessories
- This centring eyepiece for adjusting the phase contrast (OBN 158), a protective dust cover, eye cups as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera. You can select this adapter from the model outfit list

**Scope of application**

- Haematology, urology, gynaecology, dermatology, pathology, microbiology and parasitology, immunology, sewage treatment plants, oncology, entomology, vets, water analysis and breweries

**Applications/Samples**

- Translucent, thin, low-contrast, challenging samples (e.g. living mammal cells, bacteria, tissue)

**Technical data**

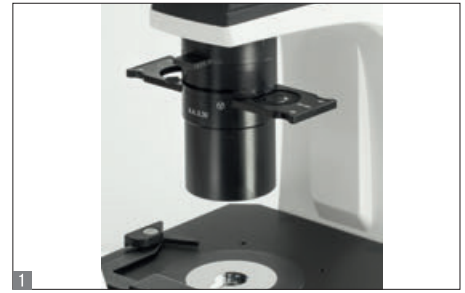
- Infinity optical system
- Quintuple nosepiece
- Siedentopf 30° inclined/360° rotatable
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 390×200×400 mm
- Net weight approx. 9 kg

Please refer to the website for further details as well as information on the full range of model features

STANDARD

OPTION

| Model          | Standard configuration |                 |                   |                             |   |
|----------------|------------------------|-----------------|-------------------|-----------------------------|---|
|                | Tube                   | Eyepiece        | Objective quality | Objectives                  | Illumination                                |
| <b>KERN</b>    |                        |                 |                   |                             |   |
| <b>OBN 132</b> | Trinocular             | HWF 10×/ø 20 mm | Infinity Plan     | 4×/10×/20×/40×/100×         | 6 V/20 W Halogen (transmitted)              |
| <b>OBN 135</b> | Trinocular             | HWF 10×/ø 20 mm | Infinity Plan     | 4×/10×/20×/40×/100×         | 3 W LED (transmitted)                       |
| <b>OBN 158</b> | Trinocular             | HWF 10×/ø 20 mm | Infinity Plan     | 4×/PH10×/PH20×/PH40×/PH100× | 6 V/20 W Halogen (transmitted)              |
| <b>OBN 141</b> | Trinocular             | WF 10×/ø 20 mm  | Infinity Plan     | 4×/10×/20×/40×/100×         | LED + 3 W LED Epi Fluorescence (B/G)        |
| <b>OBN 147</b> | Trinocular             | WF 10×/ø 20 mm  | Infinity Plan     |                             | Halogen + 100 W Epi Fluorescence (B/G)      |
| <b>OBN 148</b> | Trinocular             | WF 10×/ø 20 mm  | Infinity Plan     |                             | Halogen + 100 W Epi Fluorescence (B/G/UV/V) |



## The inverted biological laboratory microscope – also with fluorescence

### Features

- The OCM range stands out through its design which is ergonomic, robust and extremely stable. This design, with its large working distance, is particularly suitable for the monitoring and analysis of cell cultures, for example
- Strong and infinitely adjustable 30 W halogen illumination unit ensures the optimum illumination in the bright field of your samples. An additional Osram 100 W Epi fluorescence illumination unit is available to you as a fluorescence microscope (OCM 165) for perfect illumination and stimulation of your fluorescence samples
- **1** A special Abbe N.A. 0.3 condenser with aperture diaphragm and large working distance of 72 mm guarantees the very best working practise in the bright field and with fluorescence applications
- As standard, the OCM range is fitted with a trinocular eyepiece tube
- The mechanical stage including specimen holder (∅ 118 mm) means that you can work quickly and effectively. Further brackets for petri dishes are included with delivery or available as accessories
- Further options such as, for example, a selection of eyepieces, objectives, specimen holders and other phase contrast units can be integrated as accessories
- A protective dust cover as well as multi-lingual user instructions are included in the scope of delivery

### Scope of application

- Research and breeding of cell cultures and tissue cultures

### Applications/Samples

- Particularly for viewing samples in culture vessels (flasks, petri dishes, microtitre plates), translucent, thin, low-contrast, challenging samples (e.g. immuno fluorescence, FISH, DAPI staining, etc.)

### Technical data

- Infinity optical system
- **2** Quintuple nosepiece
- Siedentopf-head, 45° tilt
- Dioptre compensation on both sides

#### OCM 161

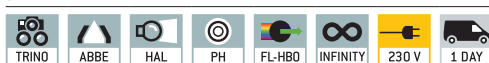
- Overall dimensions W×D×H 304×599×530 mm
- Net weight approx. 13,5 kg

#### OCM 165

- Overall dimensions W×D×H 304×782×530 mm
- Net weight approx. 21 kg

Please refer to the website for further details as well as information on the full range of model features

STANDARD



| Model               | Standard configuration |                 |                   |                                       |  |
|---------------------|------------------------|-----------------|-------------------|---------------------------------------|--|
|                     | Tube                   | Eyepiece        | Objective quality | Objectives                            | Illumination                                       |
| <b>KERN OCM 161</b> | Trinocular             | HWF 10×/∅ 22 mm | Infinity Plan     | LWD10×/LWD20×/<br>LWD40×/<br>LWD20×PH | 6 V/30 W Halogen (transmitted)                     |
| <b>OCM 165</b>      | Trinocular             | HWF 10×/∅ 22 mm | Infinity Plan     | LWD10×/LWD20×/<br>LWD40×/<br>LWD20×PH | 6 V/30 W Halogen +<br>100 W Epi Fluorescence (B/G) |



## Refractive index measurement for hospitals, medical training institutions or in sports medicine

! ▲ Also available as digital models or ABBE refractometers, we are happy to advise you

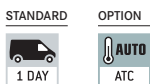
### Features

- The KERN ORA refractometers are universal, maintenance-free analogue handheld refractometers
- The main scope of applications is: Hospitals, Doctor's surgeries/Physicians, Medical training institutions, Nursing homes, Sports medicine (doping test)
- Particularly the ORA 2PA is suitable for the measurement of the specific gravity (sg) in urine, the quantity of serum (serumproteine) in urine (doping control among athletes), and the refractive index. The ORA 5PB has been developed specially for the veterinary sector
- The handy and robust design allows the easy, efficient and sustainable use in everyday life.
- Manually calculated conversions and errors of the user are avoided by multiple selectable scales
- These scales are especially developed, exactly calculated and checked. They are also characterized by their thin and clear lines
- The optical system and the prism cover are made of special material which allows a low-tolerance measuring
- All ORA models are equipped with an eyepiece for easy and smooth setting for many different diopter strengths
- The models marked with "ATC" have an automatic temperature compensation which enables accurate measurement at different ambient temperatures
- **1** The following accessory-parts are included:
  - Storage box
  - Calibration liquid
  - Pipette
  - Small screwdriver
  - Cleaning tissue
- Further accessories are optionally available

### Technical data

- Die-cast housing of copper-aluminium alloy, chrome coated
- Measurement temperature without ATC: 20 °C
- Measurement temperature range with ATC: 10 °C/30 °C
- Dimensions of the box W×D×H 205×75×55 mm
- Packing dimensions W×D×H 215×94×65 mm
- Product length: approx. 130-200 mm (depending on the model)
- Net weight approx. 145 g

Please refer to the website for further details as well as information on the full range of model features



| Model           | Scales   | Measuring range  | Division                           | ATC |  |
|-----------------|--|--|------------------------------------|-----|--|
| <b>KERN</b>     |  |  |                                    |     |  |
| <b>ORA 4RR</b>  | Refractive index   | 1,440 - 1,520 nD                                       | 0,001 nD                           |     |  |
| <b>ORA 2PA</b>  | Serum protein<br>Urine (spec. gravity)<br>Refractive index | 0 - 12 g/dl<br>1,000 - 1,050 sgU<br>1,3330 - 1,3600 nD | 0,2 g/dl<br>0,002 sgU<br>0,0005 nD | ✓   |  |
| <b>ORA 32BA</b> | Brix   | 0 - 32 %   | 0,2 %                              | ✓   |  |
| <b>ORA 5PB</b>  | Serum protein<br>Urine (s. g. dog)<br>Urine (s. g. cat)    | 2 - 14 g/dl<br>1,000 - 1,060 sgU<br>1,000 - 1,060 sgU  | 0,1 g/dl<br>0,001 sgU<br>0,001 sgU |     |  |

ular Small Breed Dogs



## KERN Veterinary scales

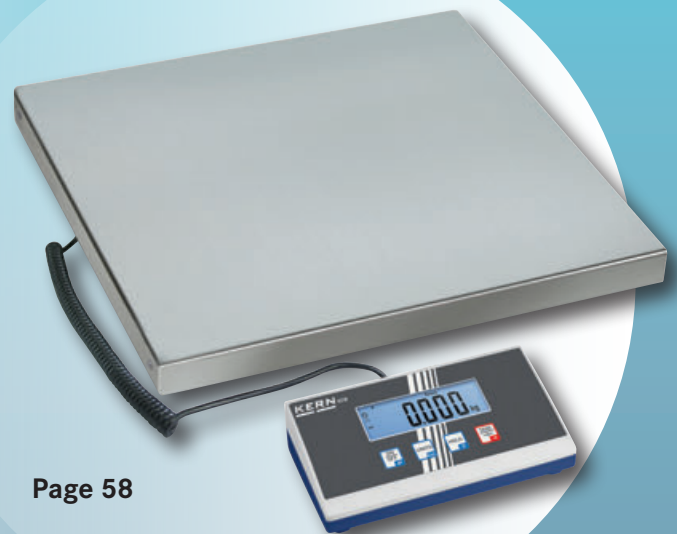
**Animal scales for weighing various animals such as rabbits, cats, dogs, snakes, sheep, horses, etc.**

Electronic animal scales from KERN are the very best tool for checking animal weight. KERN animal scales stand out from the crowd because they are easy to use, have a high degree of mobility, with robust technology, a large display and ergonomic design. From scales for small animals, which are also ideal for weighing animal feed in line with a diet sheet, through to high-capacity floor scales for animals weighing up to 300 kg, right up to hanging and crane scales for mobile weighing of animals up to 1 ton, KERN's veterinary scale range offers a wide choice.

Many useful functions assist the vet, animal keeper or pet owner in their daily work with the animal. Thanks to a special animal weighing program, a steady weight will be displayed, even if the animal moves during the weighing process. You can use the practical HOLD function, which means that the weight obtained will continue to be displayed even after the animal has been removed from the scale. This means that you have time to take care of the animal first.

Whether stationary in a veterinary practice, or mobile at the home of a pet owner, in enclosures or in the wild, the power supply to the KERN veterinary scales is always guaranteed thanks to mains or battery operation.

KERN – for the love of animals!



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Practical assistant for the mobile weighing of heavy pets, animal feed etc. up to 1 t!

**Features**

- Thanks to the animal weighing function, it can also be used by vets. Compact – so it can be stored in the vet’s case and is ideally suited for heavy pets
- Data hold function:  
For easy reading of the weight, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Varied options for hanging the items, thanks to the stainless steel hook and stainless steel snap links included as standard (not with models HCB with [Max] ≥ 0.5 t)
- Peak load display (peak hold), measuring frequency 5 Hz
- [Max] ≤ 200 kg: Snap link (stainless steel) with safety catch standard
- [Max] ≤ 200 kg: Hook (stainless steel) standard

**HCB**

- Ready for use: Batteries standard, 3×1,5 V AA, operating time approx. 300 h
- 1 HCB with [Max] ≥ 0,5 t: Reinforced versions for heavy loads. Snap link and hook not included

**HCN**

- Ready for use: Batteries included 2×1,5 V AA, operating time approx. 200 h
- 2 Housing stainless steel, IP65: Protected against dust and water splashes
- 3 Second display on the rear of the balance

**Technical data**

- LCD display, digit height 12 mm
- Hole diameter of load support, model with [Max] ≤ 200 kg: approx. 14 mm [Max] > 200 kg: approx. 16 mm

**Accessories for models with [Max] ≥ 100 kg**

- Hook with safety catch, cast steel, galvanised and lacquered, revolving. Scope of supplies: 2 shackles, 1 lacquered screw bolt, 1 hook, KERN YHA-06

**Accessories for models with [Max] ≤ 200 kg**

- Hook (stainless steel), aperture approx. 25 mm, KERN HCB-A02
- Snap link (stainless steel) with safety catch, aperture approx. 15 mm, can be reordered, KERN HCB-A01

**Accessories for models with [Max] ≥ 0,5 t**

- High-strength shackles, hot-dipped galvanised cast steel bracket, curved edge. Scope of supplies: 2 shackles with lacquered screw bolts, suitable for the following models: KERN HCB with [Max] ≥ 0,5 t, KERN YSC-03

STANDARD



2

| Model           | Weighing range |    | Readability | LCD display, digit height | Dimensions housing W×D×H mm | Height with snap link and hook mm | Net weight approx. kg |
|-----------------|----------------|----|-------------|---------------------------|-----------------------------|-----------------------------------|-----------------------|
|                 | [Max]          | kg |             |                           |                             |                                   |                       |
| <b>KERN</b>     |                |    |             |                           |                             |                                   |                       |
| HCB 20K10       | 20             |    | 10          | 12                        | 80×45×150                   | 290                               | 0,60                  |
| HCB 50K20       | 50             |    | 20          | 12                        | 80×45×150                   | 290                               | 0,60                  |
| HCB 50K100      | 50             |    | 100         | 12                        | 80×45×150                   | 290                               | 0,60                  |
| HCB 99K50       | 99             |    | 50          | 12                        | 80×45×150                   | 290                               | 0,60                  |
| HCB 100K200     | 100            |    | 200         | 12                        | 80×45×150                   | 290                               | 0,35                  |
| HCB 200K100     | 200            |    | 100         | 12                        | 80×45×150                   | 290                               | 0,60                  |
| HCB 200K500     | 200            |    | 500         | 12                        | 80×45×150                   | 290                               | 0,60                  |
| HCB 0.5T-3      | 500            |    | 1000        | 12                        | 80×42×152                   | -                                 | 0,35                  |
| HCB 1T-3        | 1000           |    | 2000        | 12                        | 80×45×150                   | -                                 | 0,35                  |
| stainless steel |                |    |             |                           |                             |                                   |                       |
| HCN 50K100IP    | 50             |    | 100         | 12                        | 96×48×179                   | 315                               | 0,8                   |
| HCN 100K200IP   | 100            |    | 200         | 12                        | 96×48×179                   | 315                               | 0,8                   |
| HCN 200K500IP   | 200            |    | 500         | 12                        | 96×48×179                   | 315                               | 0,8                   |



All-purpose small pet scale for mobile and stationary use

**Features**

- Ideal table scale for weighing small animals or for the laboratory
- Particularly flat design
- Plastic weighing tray, removable
- Easy and hygienic cleaning
- Tare function facilitates formulation work
- Simple and convenient 2-key operation

**Technical data**

- LCD display, digit height 15 mm
- Dimensions of weighing plate:
  - A**  $\varnothing$  82 mm
  - B**  $\varnothing$  105 mm
  - C**  $\varnothing$  150 mm, see larger picture
- Batteries included, 9 V block respectively 2x1,5 V AA
- Socket for mains adapter included

**Accessories**

- External universal mains adapter, with universal input and optional input socket adapters for EU, GB, USA, not included, KERN YKA-03N

STANDARD



OPTION



| Model             | Weighing range<br>[Max]<br>g | Readability<br>[d]<br>g | Weighing plate | Dimensions housing<br>WxDxH<br>mm | Net weight approx.<br>kg |  |
|-------------------|------------------------------|-------------------------|----------------|-----------------------------------|--------------------------|--|
| <b>KERN</b>       |                              |                         |                |                                   |                          |  |
| <b>EMB 200-3</b>  | 200                          | 0,001                   | <b>A</b>       | 170x240x54                        | 0,85                     |  |
| <b>EMB 200-2</b>  | 200                          | 0,01                    | <b>B</b>       | 170x240x39                        | 0,50                     |  |
| <b>EMB 600-2</b>  | 600                          | 0,01                    | <b>B</b>       | 170x240x39                        | 0,50                     |  |
| <b>EMB 2000-2</b> | 2000                         | 0,01                    | <b>C</b>       | 170x240x54                        | 0,90                     |  |
| <b>EMB 500-1</b>  | 500                          | 0,1                     | <b>C</b>       | 170x240x39                        | 0,55                     |  |
| <b>EMB 1200-1</b> | 1200                         | 0,1                     | <b>C</b>       | 170x240x39                        | 0,55                     |  |
| <b>EMB 6000-1</b> | 6000                         | 0,1                     | <b>C</b>       | 170x240x39                        | 0,55                     |  |
| <b>EMB 2200-0</b> | 2200                         | 1                       | <b>C</b>       | 170x240x39                        | 0,55                     |  |
| <b>EMB 5.2K1</b>  | 5200                         | 1                       | <b>C</b>       | 170x240x39                        | 0,55                     |  |
| <b>EMB 5.2K5</b>  | 5200                         | 5                       | <b>C</b>       | 170x240x39                        | 0,55                     |  |



KERN FOB-NS



KERN FOB-NL

Compact stainless steel small pet scales with high degree of protection against dust and water splashes

|                       | KERN FOB-NS  | KERN FOB-NL  |
|-----------------------|--|--|
| <b>Features</b>       | <ul style="list-style-type: none"> <li>Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple to clean</li> <li>High mobility: thanks to compact, flat construction, it is suitable for use in several locations, secure and non-slip positioning through rubber feet</li> <li>Your support in an HACCP-compliant quality system</li> <li>Protective working cover included with delivery</li> </ul> |  |
|                       | <ul style="list-style-type: none"> <li>IP65: Protected against dust and water splashes (only when using battery)</li> <li>Particularly flat design</li> </ul>  | <ul style="list-style-type: none"> <li>IP67: Protected against dust and water splashes (only when using battery)</li> </ul>  |
| <b>Technical data</b> | <ul style="list-style-type: none"> <li>Large LCD display, digit height 20 mm</li> <li>Overall dimensions W×D×H 170×150×40 mm</li> <li>Ready for use: battery 9 V Block standard, operating time up to 24 h</li> <li>Permissible ambient temperature 10 °C/35 °C</li> </ul>   | <ul style="list-style-type: none"> <li>Large backlit LCD display, digit height 25 mm</li> <li>Overall dimensions W×D×H 285×255×90 mm</li> <li>Ready for use: battery 4×1,5 V AA standard, operating time up to 66 h without backlight</li> <li>Permissible ambient temperature 5 °C/35 °C</li> </ul> |
| <b>Accessories</b>    | <ul style="list-style-type: none"> <li>Protective working cover over keyboard and housing. Scope of delivery 5 pcs., KERN FOB-A12S05</li> <li>Mains adapter external, KERN FOB-A09</li> </ul>  | <ul style="list-style-type: none"> <li>Protective working cover over keyboard and housing. Scope of delivery 5 pcs., KERN FOB-A13S05</li> <li>Mains adapter external, not included, can be reordered, KERN FOB-A01</li> </ul>  |

STANDARD      OPTION

STANDARD      OPTION

| Model  | Weighing range | Readability | Net weight approx. | Weighing plate W×D |  |
|--|----------------|-------------|--------------------|--------------------|--|
|  | [Max]<br>kg    | [d]<br>g    | kg                 | mm                 |  |
| KERN   |                |             |                    |                    |  |
| FOB 0.5K-4NS   | 0,5            | 0,1         | 0,80               | 150×120            |  |
| FOB 5K-3NS   | 5              | 1           | 0,80               | 150×120            |  |
| *Dual-range balance switches automatically to the next largest weighing range [Max] and readability [d]. |                |             |                    |                    |  |
| FOB 3K-4NL   | 3              | 0,2         | 3,80               | 252×200            |  |
| FOB 7K-4NL*  | 5   7,5        | 0,5   1     | 3,80               | 252×200            |  |
| FOB 10K-3NL*   | 8   15         | 1   2       | 3,80               | 252×200            |  |
| FOB 30K-3NL*   | 16   30        | 2   5       | 3,80               | 252×200            |  |





## Compact veterinary scale for diverse applications – also with XL platform

### Features

- Platform scale to weigh animals
- Stainless steel (EOB) respectively lacquered steel (EOE) weighing plate, which makes cleaning easy and hygienic
- Animal weighing program: When the animal moves during the weighing process, a stable weight is calculated using an average weight and this is then “frozen”. This means that you have sufficient time to attend to the patient first and then take the weight reading in peace
- Simple and convenient 4-key operation
- Integrated AUTO-OFF function to preserve the batteries
- Wall mount for the display device
- Protective working cover included with delivery

### Technical data

- Large LCD display, digit height 25 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Battery operation possible, 6×1,5 V AA, not included, operating time up to 60 h (EOB), 100 h (EOE)
- Mains adapter external, standard

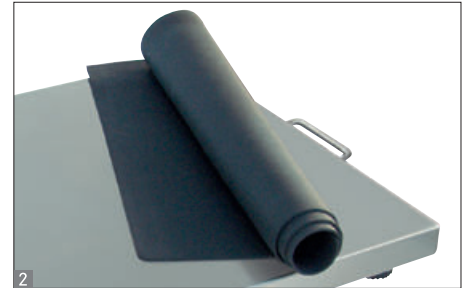
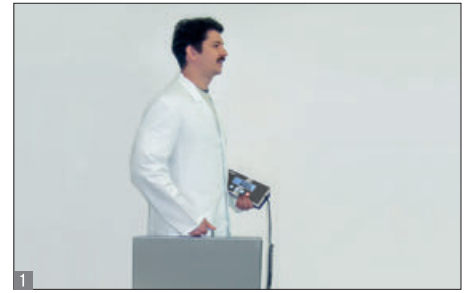
### Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A04BS05
- 1 Stand to elevate display device (for models with weighing plate sizes 315×305 mm), height of stand approx. 480 mm, KERN EOB-A01N
- 2 Stand, for all models EOB, EOE, height of stand approx. 1000 mm, KERN EOB-A02B
- KERN EOE: Non-slip rubber mat standard, W×D×H 945×505×5 mm, KERN EOE-A01

STANDARD



| Model         | Weighing range<br>[Max]<br>kg | Readability<br>[d]<br>g | Weighing plate<br>mm | Cable length<br>approx.<br>cm | Net weight<br>approx.<br>kg |  |
|---------------|-------------------------------|-------------------------|----------------------|-------------------------------|-----------------------------|--|
| <b>KERN</b>   |                               |                         |                      |                               |                             |  |
| EOB 15K5      | 15                            | 5                       | 315×305×57           | 200                           | 4                           |  |
| EOB 35K10     | 35                            | 10                      | 315×305×57           | 180                           | 4                           |  |
| EOB 60K20     | 60                            | 20                      | 315×305×57           | 220                           | 4                           |  |
| EOB 60K20L    | 60                            | 20                      | 550×550×58           | 270                           | 14                          |  |
| EOE 150K50XL  | 150                           | 50                      | 950×500×58           | 270                           | 18                          |  |
| EOE 300K100XL | 300                           | 100                     | 950×500×58           | 270                           | 18                          |  |



Affordable veterinary model which is suitable for stationary or mobile use

**Features**

- Robust platform scale to weigh large animals
- Weighing plate made out of stainless steel, for easy and hygienic cleaning
- The low platform height facilitates access
- Animal weighing program: When the animal moves during the weighing process, a stable average value is obtained by pressing the HOLD key. This value remains “frozen” until the HOLD key is pressed again. This leaves sufficient time to look after the small patients and then read the weight in peace
- Simple and convenient 4-key operation
- Integrated AUTO-OFF function to preserve the batteries, adjustable
- **1** The scale can be easily transported using 2 rollers and a handle and does not require much storage space
- Non-slip rubber mat standard
- Wall mount for display device, standard
- Protective working cover included with delivery

**Technical data**

- Large LCD display, digit height 25 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Dimensions of weighing plate, stainless steel W×D×H 950×500×58 mm
- Battery operation possible, 4×1,5 V AA, not included
- Mains adapter external, standard

**Accessories**

- Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A04BS05
- Stand to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B
- **2** Non-slip rubber mat, W×D×H 945×505×5 mm, KERN EOE-A01

STANDARD



| Model                | Weighing range | Readability | Cable length approx. | Net weight approx. |  |
|----------------------|----------------|-------------|----------------------|--------------------|--|
|                      | [Max]<br>kg    | [d]<br>g    | cm                   | kg                 |  |
| <b>KERN</b>          |                |             |                      |                    |  |
| <b>EOS 150K50XL</b>  | 150            | 50          | 270                  | 17                 |  |
| <b>EOS 300K100XL</b> | 300            | 100         | 270                  | 17                 |  |