



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

MSB 80

- Portable mechanical height rod
- Approved as a medical device according to regulation (EU) 2017/745
- For babies up to a maximum of 80 cm
- Large guide surfaces make handling easier (aligning, shifting, reading)
- Measuring scale begins with 0 on the right and left, so it can be used in both directions
- Height rod can be taken apart for compact storage

MBA-A01

- Portable mechanical height rod
- Approved as a medical device according to regulation (EU) 2017/745
- For babies up to a maximum of 80 cm
- Robust construction
- Compact size
- Easy and hygienic cleaning
- Readout on scale with moveable stop
- Large guide surfaces make handling easier (aligning, shifting, reading)

MSC 100

- Portable mechanical height rod
- Approved as a medical device according to regulation (EU) 2017/745
- For infants up to a maximum of 100 cm
- Readout on scale with moveable stop
- Sturdy aluminium profile
- Stop can be folded for compact storage

MSF 200

- Mechanical height rod
- Approved as a medical device according to regulation (EU) 2017/745
- Readability on scale with moveable, foldable stop
- Readout on scale with moveable, foldable stop or mounting on KERN scales MPS-PM, MPB-P or wall-mounted **1**
- Sturdy aluminium profile

Discover more details and matching accessories online!



STANDARD



CE
0297



Model	Measuring range	Increments	Overall dimensions	Net weight
KERN	cm (inch)	mm (inch)	W×D×H mm	approx. kg
MSB 80	10 – 80	1	882×70×28	0,70
MBA-A01	30 – 80 (11½ – 31½)	1 (⅛)	850×240×60	0,40
MSC 100	7,5 – 100 (2½ – 39¼)	1 (⅛)	1020×290×50	0,70
MSF 200	60 – 205 (23½ – 78¾)	1 (⅛)	53×40×1000	0,80

KERN Pictograms



External adjustment

Quick setting up of the balance's accuracy with external adjusting weight



Memory

Device memory capacity, e.g. for article data, measuring data, tare weights, PLU etc.



Alibi memory

Secure, electronic archiving of measuring results, complying with the 2014/31/EU standard.



Data interface RS-232

To connect the device to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible



Data interface RS-485

To connect the device to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible



KERN Universal Port (KUP)

Allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort



USB data interface

To connect the device to a printer, PC or other peripherals



Bluetooth* data interface

To transfer data to a printer, PC or other peripherals



WIFI data interface

To transfer data to a printer, PC or other peripherals



Control outputs (optocoupler, digital I/O)

To connect relays, signal lamps, valves, etc.



Analogue interface

To connect a suitable peripheral device for analogue processing of the measurements



Statistics

Using the saved values, the device calculates statistical data, such as average value, standard deviation etc.



PC Software

To transfer the measurements from the device to a PC



KERN Communication Protocol (KCP)

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



GLP/ISO log internal

The measuring device generates a GLP-compliant printout, independent of a printer connection



Piece counting

Reference quantities selectable. Display can be switched from piece to weight



Totalising function

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



Net-Total

The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out



Units

Can be switched to e.g. nonmetric units. Please refer to website for more details



Mesuring with tolerance range

(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



ZERO

Resets the display to "0"



Hold function

When patients do not stand, sit or lie completely still, a stable weight is calculated using an average weight



Protection against dust and water splashes IPxx

The type of protection is shown in the pictogram



Suspended weighing

Load support with hook on the underside of the balance



Battery operation

Ready for battery operation. The battery type is specified for each device



Rechargeable battery pack

Rechargeable set



Universal plug-in power supply

With universal input and optional input socket adapters for EU, CH, GB, US, AUS



Plug-in power supply

230V/50Hz in standard version for EU. On request GB, AUS or US version available



Integrated power supply unit

Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or US on request



Weighing principle Strain gauges

Electrical resistor on an elastic deforming body



Peak hold function

Capturing a peak value within a measuring process



Push and Pull

The measuring device can capture tension and compression forces



Integrated scale

In the eyepiece



360° rotatable microscope head



Monocular Microscope

For the inspection with one eye



Binocular Microscope

For the inspection with both eyes



Trinocular Microscope

For the inspection with both eyes and the additional option for the connection of a camera



Abbe Condenser

With high numerical aperture for the concentration and the focusing of light



Halogen illumination

For pictures bright and rich in contrast



LED illumination

Cold, energy-saving and especially long-life illumination



Fluorescence illumination

Either with a 100 W high-pressure vapour lamp or a 5 W LED fluorescent unit



Phase contrast unit

For a higher contrast



Darkfield condenser/unit

For a higher contrast due to indirect illumination



Polarising unit

To polarise the light



Infinity system

Infinity corrected optical system



Automatic temperature compensation

For measurements between 10 °C and 30 °C



Conformity assessment

The time required for conformity assessment is 3 working days



Package shipment

The time required for internal shipping preparations is shown in days in the pictogram



Pallet shipment

The time required for internal shipping preparations is shown in days in the pictogram