

Height Rod KERN MSB · MBA · MSF







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

MSB 80

- · Portable mechanical height rod
- Approved as a medical device according to 93/42/EEC or 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 93/42/EEC or 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)

MSF 200

- · Mechanical height rod
- Approved as a medical device according to 93/42/EEC or 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
- · Sturdy aluminium profile











Model	Measuring range	Increments	Overall dimensions W×D×H	Net weight approx.
KERN	mm (inch)	mm	mm	kg
MSB 80	10 - 80	1	882×70×28	0,7
MBA-A01	30 - 80 (11 1/5 - 31 1/2)	1 (1 1/16)	850×240×60	0,4
MSF 200	60 - 205 (23 ½ - 78 ¾)	1 (1 1/16)	53×40×1000	0,8







Adjusting program CAL

For quick setting up of the balance's accuracy. External adjusting weight required



Memory

Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.



Data interface RS-232

To connect the balance to a printer, PC or network



RS-485 data interface

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



USB data interface

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



Bluetooth* data interface

To transfer data from the balance to a printer, PC or other peripherals



WIFI data interface

To transfer data from the balance to a printer, PC or other peripherals



Control outputs (optocoupler, digital I/O)

To connect relays, signal lamps, valves, etc.



Statistics

sing 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



GLP/ISO log internal

The balance displays weight, date and time, independent



GLP/ISO log

With date and time. Only with KERN printers



KERN Communication Protocol (KCP)

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



Piece counting

Reference quantities selectable. Display can be switched from piece to



Totalising level A

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



Weighing units

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



Weighing 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



Hold function

When the weighing conditions are unstable, a stable weight is calculated as an average value



Protection against dust and water splashes IPxx

The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC0529:1989+A1:1999 +A2:2013



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



Battery operation rechargeable

Prepared for a rechargeable battery operation



Rechargeable battery pack

Rechargeable set



Universal plug-in power supply with universal input and

optional input socket adapters for A) EU, CH B) EU, CH, GB, US C) 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 for compound microscopes

With 100 W mercury lamp and filter



Fluorescence illumination for compound microscopes With 3W LED illumination

Phase contrast unit 0 For a higher contrast

indirect illumination

and filter



Darkfield condenser/unit For a higher contrast due to

Polarising unit ₩ To polarise the light POLAR



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 specified in the pictogram



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

^{*}The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under license Other trademarks and trade names are those of their respective owner