

Mobile Leeb hardness tester SAUTER HN-D



“Pen type” Leeb hardness tester for mobile hardness testing of metals

Features	Technical data	Accessories
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- **User-friendly operation:** The compact version enables the product to be used in a significantly wider range of applications compared with traditional devices
- The measuring device has been designed for one-hand operation and this allows the user to work more quickly and flexibly
- **Modern LCD display:** Optimised for industrial applications: increased luminosity and backlight can be switched on, that way the display can be read from any angle
- **All measurement directions possible (360°)** thanks to an automatic compensation function
- **Internal impact sensor** included (Type D)
- **Measurement value display:** Rockwell (B & C), Vickers (HV), Brinell (HB), Leeb (HL)
Hardness comparison block not included
- **Internal data memory** for up to 500 measurements with date and time
- **USB data output:** Easy to install on any PC
- **Delivered in a robust carrying case**



































- Measurement uncertainty ± 4 HLD
- Dimensions W×D×H 35×25×145 mm
- Operation by rechargeable battery, standard, operating time without backlight 16 h, charging time 3 h
- Mains adapter, external, standard
- Net weight approx. 0,07 kg

- **Plug-In for data transfer of measuring data** from the measuring instrument and transfer to a PC, e.g. in Microsoft Excel®, SAUTER AFI-1.0
- **Test block** Type D/DC, $\varnothing 90$ mm (± 1 mm), Net weight < 3 kg, hardness range 790 \pm 40 HL, SAUTER AHMO D02 630 \pm 40 HL, SAUTER AHMO D03 530 \pm 40 HL, SAUTER AHMO D04
- **Factory calibration certificates** for SAUTER AHMO D02, AHMO D03, AHMO D04, SAUTER 961-132

<p>STANDARD</p> <table border="0" style="width: 100%;"> <tr> <td> MEMORY</td> <td> USB</td> <td> IR</td> <td> STATISTIC</td> <td> ACCU</td> <td> 230 V</td> <td> 1 DAY</td> </tr> </table>	MEMORY	USB	IR	STATISTIC	ACCU	230 V	1 DAY	<p>OPTION</p> <table border="0" style="width: 100%;"> <tr> <td> CAL BLOCK</td> <td> SOFTWARE</td> <td> ISO +4 DAYS</td> </tr> </table>	CAL BLOCK	SOFTWARE	ISO +4 DAYS
MEMORY	USB	IR	STATISTIC	ACCU	230 V	1 DAY					
CAL BLOCK	SOFTWARE	ISO +4 DAYS									

Model	Sensor	Measuring range	Readout	Option	
				Factory calibration certificates	
SAUTER		[Max] HLD	[d] HL	KERN	
HN-D.	Typ D	170-960	1	961-131	

Pictograms

 Adjusting program (CAL): For quick setting of the instrument's accuracy. External adjusting weight required.	 Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc.	 ZERO: Resets the display to "0".
 Calibration block: standard for adjusting or correcting the measuring device.	 Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements	 Battery operation: Ready for battery operation. The battery type is specified for each device.
 Peak hold function: capturing a peak value within a measuring process.	 Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc.	 Rechargeable battery pack: rechargeable set.
 Scan mode: continuous capture and display of measurements.	 PC Software: to transfer the measurement data from the device to a PC.	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
 Push and Pull: the measuring device can capture tension and compression forces.	 Printer: a printer can be connected to the device to print out the measurement data.	 Power supply: Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.
 Length measurement: captures the geometric dimensions of a test object or the movement during a test process.	 Network interface: For connecting the scale to an Ethernet network.	 Motorised drive: The mechanical movement is carried out by a electric motor.
 Focus function: increases the measuring accuracy of a device within a defined measuring range.	 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.	 Motorised drive: The mechanical movement is carried out by a synchronous motor (stepper).
 Internal memory: to save measurements in the device memory.		 Fast-Move: the total length of travel can be covered by a single lever movement.
 Data interface RS-232: bidirectional, for connection of printer and PC.	 GLP/ISO record keeping: of measurement data with date, time and serial number. Only with SAUTER printers	 DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram.
 Data interface USB: To connect the measuring instrument to a printer, PC or other peripheral devices.	 Measuring units: Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details.	 Factory calibration: The time required for factory calibration is specified in the pictogram.
 WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.	 Measuring with tolerance range (limit-setting function): Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 Data interface Infrared: To transfer data from the measuring instrument to a printer, PC or other peripheral devices.		 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.

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