Mobile Leeb hardness tester SAUTER HN-D











"Pen type" Leeb hardness tester for mobile hardness testing of metals

Features

STANDARD

- 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, so that 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), Shore (HSD), Leeb (HL)

- Standard block for calibration not included
- Internal data memory for up to 500 measurements with date and time
- USB-PC data output: Easy to install on any PC
- 1 Delivered in a hard carrying case

Technical data

- Accuracy ± 4 HLD
- Dimensions LxWxH 145x35x25 mm
- Operation by rechargeable battery pack, standard
- · Mains adapter external standard
- Net weight approx. 0,07 kg

Accessories

- PC software to download stored data, for statistical evaluation, and transfer to Microsoft Excel, SAUTER AHN-01
- 2 Attachment rings for secure positioning, SAUTER AHMR 01
- **Impact body** Type D, Net weight approx. 5,5 g, hardness \geq 1600 HV, tungsten carbide, Impact ball Ø 3 mm, in accordance with the standard ASTM A956-02, SAUTER AHMO D01
- 4 Test block Type D / DC, Ø 90 mm (± 1 mm), Net weight < 3 kg, hardness range 790 ± 40 HL, SAUTER AHMO D02 630 ± 40 HL, SAUTER AHMO D03 530 ± 40 HL, SAUTER AHMO D04
- ISO calibration certificate for SAUTER AHMO D02, AHMO D03, AHMO D04, SAUTER 961-132
- 5 Thermal printer, wireless infrared connection to SAUTER HN-D, HMM, HMO, SAUTER AHN-02
- Paper roll, 1 piece, for SAUTER AHN-02, SAUTER ATU-US11

MEMORY USB		230 V 1 DAY WARRANTY	CAL BLOCK SOFTWARE PRIN	
Model	Sensor	Measuring range	Readout	0

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SAUTER		HL	HL		KERN	
HN-D.	Type D	0 - 999	1		961-131	

SAUTER Pictograms:



Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.



Calibration block:

standard for adjusting or correcting the measuring device.



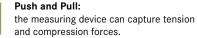
Peak hold function: capturing a peak value within a measuring process.

continuous capture and display



of measurements.

Scan mode:





PUSH/PULL

Length measurement: captures the geometric dimensions of

a test object or the movement during a test process.



Focus function:

increases the measuring accuracy of a device within a defined measuring range.



Internal memory: to save measurements in the device memory.

of printer and PC.



Data interface RS-232: bidirectional, for connection



Data interface USB: To connect the balance to a printer, PC or other peripheral devices.



Data interface Infrared: To transfer data from the balance to a

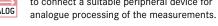
To transfer data from the balance to a printer, PC or other peripheral devices.



(optocoupler, digital I/O): SWITCH to connect relays, signal lamps, valves, etc.

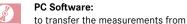


Analogue interface: to connect a suitable peripheral device for





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





SOFTWARE

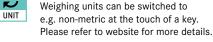
Printer: a printer can be connected to the device to print out the measurements.

the device to a PC.



GLP/ISO record keeping: of measurements with date, time and serial number. Only with SAUTER printers.

Measuring units: Weighing units can





Measuring with tolerance range: Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.



ZERO: Resets the display to "0".



Battery operation:

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



Rechargeable battery pack:

rechargeable set.



Mains adapter:

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

SAUTER



230 V

Power supply:

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



The mechanical movement is carried out by a motorised drive.



MOTOR

Fast-Move:

the total length of travel can be covered by a single lever movement.



ISO Calibration:

The time required for ISO calibration is shown in days 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.



1 DAY

VARRANTY

Warranty: The warranty period

The warranty period is shown in the pictogram.





