



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

### Features

- **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
- **Delivered in a hard carrying case**

### Technical data

- Accuracy  $\pm 4$  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
- **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  $\varnothing 3$  mm, in accordance with the standard ASTM A956-02, SAUTER AHMO D01
- **Test block** Type D / DC,  $\varnothing 90$  mm ( $\pm 1$  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
- **ISO calibration certificate** for SAUTER AHMO D02, AHMO D03, AHMO D04, SAUTER 961-132
- **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































#### STANDARD



#### OPTION



Model	Sensor	Measuring range	Readout	Option	
				ISO Calibration Certificate	
SAUTER		[Max] HL	[d] HL	ISO	
HN-D.	Type D	0 - 999	1	KERN	961-131

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

Your SAUTER specialist dealer: