







# "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, 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), Shore (HSD), Leeb (HL) Hardness comparison block not included
- Internal data memory for up to 500 measurements with date and time
- · USB-PC data output: Easy to install on any PC
- 11 Delivered in a hard carrying case

#### **Technical data**

- Accuracy ± 4 HLD
- Dimensions W×D×H 35×25×145 mm
- · Operation by rechargeable battery, standard
- · Mains adapter, external, standard
- Net weight approx. 0,07 kg

#### **Accessories**

- · 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
- 2 Attachment rings for secure positioning, SAUTER AHMR 01
- 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  $530 \pm 40$  HL, SAUTER AHMO D04
- Factory calibration certificates for SAUTER AHMO D02, AHMO D03, AHMO D04, SAUTER 961-132
- 4 Wireless IR printer included for on-site printing of measurement protocols (battery operated), can be reordered, **SAUTER AHN-02**
- Paper roll, 1 piece, for SAUTER AHN-02, SAUTER ATU-US11

























Model	Sensor	Measuring range	Readout		Option	
					Factory calibration certificates	
		[Max]	[d]			
SAUTER		HL	HL		KERN	
HN-D.	Typ D	0-999	1		961-131	

# **SAUTER Pictograms:**





# Adjusting program (CAL):

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



# Control outputs

# (optocoupler, digital I/O):

to connect relays, signal lamps, valves, etc.



### Mains adapter:

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



PEAK

SCAN

#### Calibration block:

Peak hold function:

measuring process.

of measurements.

Scan mode:

standard for adjusting or correcting the measuring device.

capturing a peak value within a

continuous capture and display



# Analogue interface:

to connect a suitable peripheral device for analogue processing of the measurements.



### Power supply:

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



#### Statistics:

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



# Motorised drive:

The mechanical movement is carried out by a electric motor.



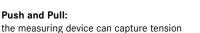
# PC Software:

to transfer the measurements from the device to a PC.



#### Motorised drive:

The mechanical movement is carried out by a synchronous motor (stepper).





# Printer:

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



#### Fast-Move:

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



# Length measurement:

and compression forces.

captures the geometric dimensions of a test object or the movement during a test process.



#### GLP/ISO record keeping:

of measurements 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.



#### Focus function:

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



# 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.



### Internal memory:

to save measurements in the device memory.

Data interface RS-232:

bidirectional, for connection

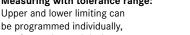


**•**0+

ZERO

### Measuring with tolerance range:

be programmed individually, e.g. for sorting and dosing.





# Package shipment:

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



Resets the display to "0".



### Pallet shipment:

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



# Warrantv:

The warranty period is shown in the pictogram.



USB

((((:•

IR

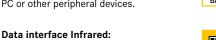
# Data interface USB:

of printer and PC.

To connect the balance to a printer, PC or other peripheral devices.

To transfer data from the balance to a

printer, PC or other peripheral devices.





# **Battery operation:**

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



# Rechargeable battery pack:

rechargeable set.

# Your SAUTER specialist dealer:



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