

# ULTRASONIC HARDNESS TESTER

PCE-3000



- » **Measurement in HV, HRC, HB, HRB - 360° measurement direction**
- » **TFT color display**
- » **Memory for 150 measured values**
- » **Single and average measurement**
- » **Result display with tolerance evaluation**
- » **UCI calibration for various materials**
- » **Test standard ASTM A1038**
- » **Measuring probe 50 N**

The ultrasonic hardness tester impresses with its high precision, versatility and user-friendly operation for reliable hardness measurements in industrial environments. The device supports multiple hardness scales such as HV, HRC, HB and HRB and enables measurements in any direction (360°). The large TFT color display clearly shows the measurement results. The ultrasonic hardness tester offers high repeatability of  $\pm 3\%$  for HV and HB and  $\pm 1.5$  for HRC and HRB. The storage of up to 150 measured values enables efficient documentation of the test results, which can be called up in the device.

The ultrasonic hardness tester has various measurement modes, including single measurement and averaging of 3, 5 or 10 measurements. The results display with tolerance evaluation shows directly whether the measured values are within the defined range. UCI calibration is possible for various materials such as steel, stainless steel, aluminum, brass and user-defined materials. Operation is via an intuitive menu with navigation keys and function keys. The ultrasonic hardness tester runs on standard AA batteries and offers an operating time of 6 to 8 hours. Its robust design and compliance with the ASTM A1038 standard make the device ideal for use in quality assurance, materials testing and industrial manufacturing. Typical areas of application include hardness testing of metals, workpieces, components and welds in production, in the laboratory and during incoming goods inspection.

## Specification

### Hardness

Measurement range up to 20 ... 999 HB

Resolution 0,1 HB

Accuracy  $\pm 3\%$

### Hardness

Measurement range up to 20 ... 999 HV

Resolution 0,1 HV

Accuracy  $\pm 3\%$

### Hardness

Measurement range with 80 HRC

Resolution 0,1 HRC

Accuracy  $\pm 1.5\%$

### Hardness

Measurement range up to 20 ... 120 HRB

Resolution 0,1 HRB

Accuracy  $\pm 1.5\%$

### General technical data

Display type TFT colour display

Display size 2,75 Inch

Storage medium Internal memory

Storage capacity 150 Values

Memory information only viewable on the device

Standard(s) ASTM A1038

Operating time 6 h

Automatic power-off from...to 2 ... 10 min.

Menu language English (GB), English

Protection class (device) IP52

Power supply 4.5V (AA batteries)

(Rechargeable) battery 3 x 1,5 V AA battery , Alkali-manganese

Capacity 3000 mAh

Operating conditions 10 ... 50 °C , 0 ... 95 % RH

Storage conditions 10 ... 50 °C , 0 ... 95 % RH

Dimensions ( L x W x H ) 170 x 85 x 36 mm

Weight 235 g