

Ultrasonic Thickness Meter PCE-TG 100







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Thickness meter for homogeneous materials, Ultrasonic speed adjustable, Internal calibration standard, Measuring range up to 225 mm / 8.86 in (displays in mm only)

The PCE-TG 100 is a compact ultrasonic thickness meter for homogeneous materials. This ultrasonic thicknessmeter PCE-TG 100 works with an external ultrasonic probe; this probe conducts ultrasonic waves into the material to be tested. Different materials conduct ultrasound at different speeds, so you can choose different ultrasonic speeds on the PCE-TG 100 ultrasonic thickness meter. The step size is 1 m/s with a setting range of 500 to 9999 m/s. The meter is factory pre-set with five different sound speeds for different material.

With the ultrasonic thickness meter, you can determine the material thicknesses of metal, glass, plastics and other homogeneous materials in seconds. Operation of the ultrasonic thickness meter is very easy via the six buttons. The ultrasound probe has a measuring head, which is fitted in a resilient black spring washer. The spring ring in turn has round cutouts, so that a measurement on straight, even or round material surfaces is possible. The ultrasonic thickness meter is delivered calibrated. As an accessory, you can order an ISO laboratory calibration including certificate at the time of initial order or recalibration.

- Suitable for metals, glass, plastics
- ▶ 5 MHz probe
- ▶ Resolution 0.1 mm
- ▶ 4-digit LCD display displays in mm only
- ▶ Up to 225 mm (8.8") material thickness
- ► Battery status indicator
- ► Automatic calibration
- ▶ Integrated 3.0 mm (0.11") calibration block

Specifications

Measurement

range

0.8 mm ... 225 mm / 0.03 in ... 8.86 in, displays in mm only

Measurable Ferrous and non-ferrous metals, steel, plastic, glass, gold, and

materials otherhomogeneous materials (without air pockets)

Frequency 5 MHz

Resolution 0.1 mm / 3.94 mil

Calibration 3.0 mm / 0.1 in integrated steel block

 $\pm (0.5\% + 0.1 \text{ mm})$ at 0.8 ... 99.9 mm

Accuracy ±(1% + 1 mm) at 100 ... 300 mm

Sound velocity 1000 ... 9999 m/s (freely adjustable, depending on the material

range to be tested)

Sound velocity

1 m/s

resolution

Display 4 digit LCD display

Surface

temperature for Standard -10 ... 50°C / 14 ... 122°F

probe

Measuring head

diameter

10 mm / 0.4 in

Measuring head

Straight

shape Operating

temperature 0 ... 40°C / 32 ... 104°F

range

Ambient

humidity

20 ... 90% r.H.

Dattan state

Battery status Low power indicator

Power supply 2 x 1.5V AA batteries

Battery life 250 h

Auto shutdown

For battery conservation (after about 3 minutes without

operation)

Dimensions 127 x 67 x 30 mm / 5 x 2.64 x 1.18 in (H x W x D)

Weight 270 g / < 1 lb incl. batteries