

Ultrasonic Thickness Tester PCE-TG 110



Ultrasonic thickness tester for various materials, such as metals, glass, homogeneous plastics ..., (with external probe for temperatures up to 400°C / 752°F) (displays in mm only)

The ultrasonic thickness tester PCE-TG 110 is a thickness gauge with external high-temperature probe for ferrous and non-ferrous metals etc. The PCE-TG 110 is an ideal ultrasonic thickness tester for water pipes, steam pipes and pipes for chemicals. Too thin wall thickness of a pressure line involves a high risk for employees, and this can be prevented with the thickness meter. If the wall thickness is too thin, the bursting pressure drops considerably. The ultrasonic thickness tester PCE-TG110 is a thickness gauge for various materials, such as metals, glass, homogeneous plastics. The ultrasonic thickness tester is preset with five sound speeds (in memory) for different material.

With the ultrasonic thickness tester, you can determine the material thicknesses of metal, glass, plastics and other homogeneous materials in seconds. The speed of sound can be freely adjusted on the ultrasonic thickness tester and thus adapted to a wide variety of materials. The ultrasonic probe of the ultrasonic thickness tester has a measuring head that can be used at surface temperatures of up to 400°C / 752°F. The measuring head is special coated to ensure maximum protection against skin burns. The ultrasonic thickness tester is delivered calibrated. As an accessory, you can order an ISO laboratory calibration including certificate.

- ▶ Suitable for homogeneous materials such as metals, glass, ...
- ▶ Including special coated 5 MHz probe (usable up to 400°C / 752°F)
- ▶ Resolution 0.1 mm (displays in mm only)
- ▶ 4-digit LC display
- ▶ Easy to use
- ▶ Battery status indicator
- ▶ Coupling display between probe and test piece
- ▶ Automatic calibration when switching on the thickness gauge
- ▶ Integrated 3.0 mm steel block for calibration
- ▶ Backlight

Subject to change

Specifications

Measurement range	2.5 mm ... 200 mm / 0.10 in ... 7.87 in
Measurable materials	Ferrous and non-ferrous metals, steel, plastic, glass, gold, and otherhomogeneous materials (without air pockets)
Frequency	Standard 5 MHz, diameter probe 12 mm / 0.5 in
Resolution	0.1 mm / 3.94 mil
Calibration	3.0 mm / 0.1 in integrated steel block
Accuracy	$\pm (0.5\% + 0.1 \text{ mm})$ at 0.8 ... 99.9 mm / 0.03 ... 3.9 in $\pm (1\% + 1 \text{ mm})$ at 100 ... 300 mm / 3.9 ... 11.8 in
Sound velocity range	1000 ... 9999 m/s (freely adjustable, depending on the material to be tested)
Sound velocity resolution	1 m/s
Display	4 digit LCD display
Surface temperature for probe	Standard -10 ... 400°C / 14 ... 752°F
Measuring head shape	Straight
Operating temperature range	0 ... 40°C / 32 ... 104°F
Ambient humidity	20 ... 90% r.H.
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

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