

# Ultrasonic Thickness Gauge PCE-TG 120



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**Thickness meter for homogeneous materials / With special test probe for edges and thin tubes/ Adjustable ultrasonic speed / Easy operation / May only be used on a clean and flat surface/ Not suitable for welding seams** (displays in mm only)

The Ultrasonic Thickness Gauge PCE-TG120 is a very easy-to-use wall thickness gauge for all materials. This ultrasonic thickness gauge works to accurately measure the material thickness / wall thickness with ultrasound. Different materials require different ultrasonic speeds. The ultrasonic thickness gauge is factory pre-set with five different sound velocities for different material. With the ultrasonic thickness gauge, 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 gauge and thus adapted to a wide variety of materials. The test head of the ultrasonic thickness gauge is designed in such a way that it can easily measure on angular workpieces.

The ultrasonic thickness gauge 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 all materials, on small edges and thin tubes
- ▶ Including 5 MHz probe
- ▶ Resolution 0.1 mm (displays in mm only)
- ▶ 4-digit LC display
- ▶ Backlight
- ▶ Battery status indicator
- ▶ Coupling display between probe and test piece
- ▶ Automatic calibration
- ▶ Integrated 3.0 mm steel block for calibration

# Specifications

Measurement range	1 ... 30 mm / 0.04 ... 1.18 in
Measurable materials	Ferrous and non-ferrous metals, steel, plastic, glass, gold, and other homogeneous materials (without air pockets)
Frequency	5 MHz
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	0 ... 50°C / 32 ... 122°F
Measuring head diameter	7 mm / 0.27 in
Measuring head shape	Square
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. V 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 / 9.5 oz incl. batteries

**The thickness gauge may only be used on a clean and flat surface and is not suitable for welding seams!**

Subject to change

