

Material Thickness Meter PCE-TG 300

Thickness meter PCE-TG 300

Large measuring range / Up to 600 mm / Pulse-echo or echo-echo mode / For all homogeneous materials / Print function via Bluetooth / USB connection

The PCE-TG 300 is a wall thickness meter with special sensors for various applications. In general, the wall thicknesses of all homogeneous materials can be measured with the PCE-TG 300. For damping or scattering materials such as plastic or cast a special sensor is available. An angled 90° sensor also enables measurements at hard-to-reach measuring points. The speed of sound can be set freely on the wall thickness meter PCE-TG 300 and thus adapted to a wide variety of materials.

The measured values are displayed directly on the easy-to-read TFT color display. Due to the internal memory, which can be read out via the optionally available software, different measuring points can be clearly stored. The non-destructive ultrasound measuring method enables the measurement even on end products. Thanks to the Echo-Echo working mode, even coated workpieces can be measured.

- Large measuring range
- Various sensors available
- Battery operation
- Error and voids detection
- Internal measurement data memory
- Print via Bluetooth

Specifications:

Measuring range	PE: pulse-echo mode 0.65 ... 600 mm (steel) EE: echo-echo mode 2.50 ... 60 mm
Accuracy	± 0.04 mm H [mm] (<10 mm); ± 0.4% H [mm] (> 10 mm) H refers to the material thickness of the workpiece
Resolution	0.1 mm / 0.01 mm / 0.001 mm (adjustable)
Measurable materials	Metals Plastics Ceramics Epoxy resin Glass And all homogeneous materials
Working modes	Pulse echo mode (fault and blower detection) Echo-Echo mode (hiding layer thicknesses, eg paints)
Calibration	Sound velocity calibration Zeroing Two-point calibration
View mode	Normal mode, Scan mode, Difference mode
Units	mm / inch
Data transfer	Print via Bluetooth / USB 2.0

Storage	Non-volatile memory with 100 data groups with 100 data sets each
Operating time	Continuous operation 100 h Automatic stand-by mode (adjustable) Automatic switch-off mode (adjustable)
Power supply	4 x AA battery 1.5V
Display	320 x 240 pixels TFT LCD color display with brightness adjustment
Operating conditions	0 ... 50°C / 32 ... 122°F, ≤ 80% RH not condensing
Storage conditions	-20 ... 70°C / -4 ... 158°F, ≤ 80% rh non-condensing
Dimensions	185 x 97 x 40 mm / 7.3 x 3.8 x 1.6 in
Weight	375 g / < 1 lb

Specification of the available sensors for wall thickness gauge PCE-TG 300

NO2

Frequency	2.5 MHz
Diameter	14 mm
Measuring range	3 ... 40 mm (steel) 3 ... 300 mm (steel)
Minimum diameter of pipes	Not suitable for curved materials
Description	For damping / scattering materials (plastics, cast iron)

NO5

Frequency	5 MHz
Diameter	10 mm
Measuring range	1 ... 600 mm (steel)
Minimum diameter of pipes	20 x 3 mm
Description	Normal measurement

NO5 / 90°

Frequency	5 MHz
Diameter	10
Measuring range	1 ... 600 mm (steel)
Minimum diameter of pipes	20 x 3 mm
Description	Normal measurement

NO7

Frequency	7 MHz
Diameter	6 mm
Measuring range	0.65 ... 200 mm (steel)
Minimum diameter of pipes	15 x 2 mm
Description	Or thin-walled or heavily curved pipes

HT5

Frequency	5 MHz
Diameter	12 mm
Measuring range	1 ... 600 mm (steel)
Minimum diameter of pipes	30 mm
Description	For high temperatures (max 300°C / 572°F)

P5EE

Frequency	5 MHz
Diameter	10 mm
Measuring range	PE: 2 ... 600 mm, EE: 2.5 ... 100 mm
Minimum diameter of pipes	20 x 3 mm
Description	Normal measurement and EE test

Delivery scope:

- 1 x Thickness meter PCE-TG 300
- 1 x Sensor P5EE
- 1 x 100 ml coupling gel
- 1 x Transport case

4 x AA batteries
1 x User manual