

Thickness Gauge PCE-TG 300



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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 gauge 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 gauge 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

Subject to change

Specifications

Measuring range	PE: pulse-echo mode 0.65 ... 600 mm(steel) EE: echo-echo mode 2.50 ... 60mm
Accuracy	± 0.04 mm H [mm] (<10 mm);± 0.4% H [mm] (> 10mm) H refers to the material thickness ofthe workpiece
Resolution	0.1 mm / 0.01 mm / 0.001 mm(adjustable)
Measurable materials	Metals Plastics Ceramics Epoxy resin Glass And all homogeneousmaterials
Working modes	Pulse echo mode (fault and blowerdetection) Echo-Echo mode (hiding layerthicknesses, eg paints)
Calibration	Sound velocitycalibration Zeroing Two-point calibration
View mode	Normal mode, Scan mode, Differencemode
Units	mm / inch
Data transfer	Print via Bluetooth / USB2.0
Storage	Non-volatile memory with 100 data groupswith 100 data sets each
Operating time	Continuous operation 100h 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 displaywith brightness adjustment
Operating conditions	0 ... 50°C / 32 ... 122°F, ≤ 80% RH notcondensing
Storage conditions	-20 ... 70°C / -4 ... 158°F, ≤ 80% rhnon-condensing
Dimensions	185 x 97 x 40 mm / 7.3 x 3.8 x 1.6in
Weight	375 g / < 1 lb

Specification of the available sensorsfor 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 ofpipes	Not suitable for curvedmaterials
Description	For damping / scattering materials(plastics, cast iron)

NO5

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

Subject to change

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 ... 100mm
Minimum diameter of pipes	20 x 3 mm
Description	Normal measurement and EEtest

Subject to change

