

Thickness Gauge PCE-TG 300



Thickness gauge 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 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





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Specifications

More information

- Measuring range	PE: pulse-echo mode 0.65 600 mm(steel)			
incusuring runge	EE: echo-echo mode 2.50 60mm			
Accuracy	± 0.04 mm H [mm] (<10 mm);± 0.4% H [mm] (> 10mm)			
Accuracy	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 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			
<i>C</i> .	Non-volatile memory with 100 data groupswith 100 data			
Storage	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			
	320 x 240 pixels TFT LCD color displaywith brightness			
Display	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			



3		300	mm	(steel)
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3 ... 40 mm (steel)

Minimum diameter

Measuring range

ofpipes

Description For damping / scattering materials(plastics, cast iron)

Not suitable for curvedmaterials

NO5

Frequency5 MHzDiameter10 mmMeasuring range1 ... 600 mm (steel)Minimum diameter
ofpipes20 x 3 mm

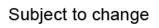
Description Normal measurement

Subject to change



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NO5 / 90°			
Frequency	5 MHz		
Diameter	10		
Measuring range	1 600 mm (steel)		
Minimum diameter	20 x 3 mm		
ofpipes			
Description	Normal measurement		
N07			
Frequency	7 MHz		
Diameter	6 mm		
Measuring range	0.65 200 mm(steel)		
Minimum diameter	15 x 2 mm		
ofpipes			
Description	Or thin-walled or heavily curvedpipes		
HT5			
Frequency	5 MHz		
Diameter	12 mm		
Measuring range	1 600 mm (steel)		
Minimum diameter	30 mm		
ofpipes			
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 ofpipes	20 x 3 mm		
Description	Normal measurement and EEtest		





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