IoT Meter PCE-TG 300-NO5/90

IoT meter

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-NO5/90 is an IoT meter with special sensors for various applications. In general, the wall thicknesses of all homogeneous materials can be measured with the thickness meter. 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 thickness meter 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 (only with PCE-TG 300-P5EE sensor).

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

Subject to change

Specifications

PCE-TG-NO5/90 sensor (at 90° angle)

Measuring range	**1 ... 600 mm / 0.039 ... 23.62" (steel)**
Minimum diameter of pipes	20 x 3 mm / 0.787 ... 0.118"
Frequency	5 MHz
Diameter	10mm / 0.39"
Description	normal measurement

PCE-TG 300-NO5/90 device

Measuring range	P-E: pulse-echo mode 0.65 ... 600 mm / 0.025 ... 23.62" (steel)"
	(measurement range varies dependingon the sensor)
	E-E: Echo-Echo mode 2.50 ... 100 mm / 0.098 ... 2.36"
	(only with PCE-TG 300-P5EE sensor)
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 void detection)
	Echo-echo mode (hide layer thicknesses, e.g. paint)
Calibration	sound velocity calibration
	zero calibration
	two-point calibration
View Mode	Normal Mode, Scan Mode, Difference Mode
Units	mm / inch
Data transfer	printing via Bluetooth / USB 2.0
Memory	non-volatile memory with 100 data groups with 100 data sets each
Operating time	continuous operation 100 h
	automatic stand-by mode (adjustable)
	auto power off mode (adjustable)
Power supply	4 x AA battery 1.5 V
Display	320 x 240 pixels TFT LCD color display with brightness adjustment
Operating conditions	0 ... +50 °C / 32 ... 122 °F, ≤80 % RH non-condensing
Storage conditions	-20 ... +70 °C / -4 ... 158 °F, ≤80 % RH non-condensing
Dimensions	185 x 97 x 40 mm / 7.2 x 3.8 x 1.5"
Weight	375 g / 13.2 oz

More information

Manual

Video

More product info

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