

COATING THICKNESS GAUGE

PCE-CT 1000



- » **Multi-layer measurements for up to 3 layers**
- » **Waveform display**
- » **Adjustable sonic velocity**
- » **21 preset materials**
- » **Continuous measurement possible**
- » **Internal memory for 999 data sets**
- » **IPS colour display**
- » **PC software and data export**

The coating thickness gauge works according to the pulse-reflection principle of ultrasonic measurement and delivers precise results for a wide range of materials. It is ideal for measuring coating thicknesses on non-metallic substrates, such as plastic parts, wood or glass, as well as for determining the thickness of metallic base materials and coatings.

Thanks to its multi-layer measurement function, the coating thickness gauge enables the precise analysis of complex material structures and multi-layer systems. The brilliant IPS color display ensures a razor-sharp display of all measured values, parameters and waveforms. The integrated waveform display allows precise control of the signal quality and thus contributes to the high measurement accuracy.

The sonic velocity can be individually adjusted to achieve optimum results for different materials. In addition, the coating thickness gauge has 21 preset materials that are ready for immediate use. Thanks to the continuous measurement function, larger areas can also be checked quickly and efficiently.

Another advantage of the coating thickness gauge is the internal memory for up to 999 data records, which can be used to easily document and later analyze measurement results. The stored data can be displayed directly on the device and, if required, conveniently read out, analyzed and exported in various formats using the PC software supplied.

The coating thickness gauge is therefore ideal for numerous applications.

Specification

Material thickness

Measurement range up to 300 ... 14800 μm

Resolution 1 μm

Accuracy $\pm 3\%$ v.Mw. + 3 μm

Layer thickness

Measurement range up to 13 ... 5500 μm

Resolution 1 μm

Accuracy $\pm 3\%$ v.Mw. + 3 μm

Sensor

Battery type Ultrasound

Frequency 15 MHz

Min. measuring surface 6 millimetres

Dimension $\varnothing 22 \times 43$

Cable length 75 cm

General technical data

Display type IPS

Display size 5 Inch

Display resolution 800x480 inch

Storage medium Internal memory

Storage capacity 999 Data records

Interface USB-C

Standard(s) GB/T 37361-2019, JJF1126-2004

Automatic power-off from...to 1 ... 30 min.

Automatic power-off can be deactivated Yes

Adjustable sound velocity 1000 ... 9999 m/s

Menu language English, English (GB), Chinese

Protection class (device) IP20

Power supply 5 V DC

Connector type Euro plug

(Rechargeable) battery 1 x 3,7 V internal, Lithium-ion polymer battery

Capacity 4000 mAh

Operating conditions 0 ... 50 °C, 0 ... 80 % RH

Storage conditions 0 ... 50 °C, 0 ... 80 % RH

Dimensions (L x W x H) 97 x 143 x 22 mm

Weight 371 g