

COATING THICKNESS GAUGE

PCE-CT 5000H



- » **Designed for non-destructive testing and inspection**
- » **Measures coating thickness on Fe and nFe metals**
- » **Displays measuring units in μm , mm or mils**
- » **Saves up to 2000 measurements to internal memory**
- » **Practical V-groove on the measuring head**
- » **One- to four-point and zero calibration**
- » **Comfortable one-handed operation**
- » **Programmable alarm limits**
- » **High measuring range**
- » **High measuring accuracy**
- » **Automatic shutdown**

PCE-CT 5000H is a coating thickness measuring instrument used for the rapid determination of coating thicknesses on ferrous (Type F) and non-ferrous (Type N) metals. The coating thickness gauge automatically detects the type of metal to be measured. The PCE-CT 5000H coating thickness gauge uses magnetic induction (ferrous) or eddy current (non-ferrous) to take non-destructive measurements of coating and dry film thickness (DFT) on metal substrates such as steel and aluminum.

This thickness gauge is ideal for painted and powder-coated surface testing, automotive paint inspection, coated material testing, and manufacturing quality control applications. Alarm limits can be set in the coating thickness gauge to notify the user when a coating is too thick or too thin. If a coating thickness measurement falls outside the established limits, a message appears on the display to alert the user.

Specification

Layer thickness	
Measuring range	0 ... 99,9 µm
Resolution	0,1 µm
Accuracy	±(2% +1 µm)
Layer thickness	
Measuring range	100 ... 999 µm
Resolution	1 µm
Accuracy	±(2% +1 µm)
Layer thickness	
Measuring range	1000 ... 5000 µm
Resolution	0,01 µm
Accuracy	±(2% +1 µm)
Sensor	
Measuring range	0 ... 3000 mm
Battery type	Eddy current mode (NFe)
Min. measuring surface	20 mm
Min. layer thickness	0.05 mm
Min. radius of curvature convex	5 mm
Min. radius of curvature concave	25 mm
Sensor	
Measuring range	0 ... 5000 mm
Battery type	Magnetic mode (Fe)
Min. measuring surface	20 mm
Min. layer thickness	0.05 mm
Min. radius of curvature convex	5 mm
Min. radius of curvature concave	25 mm

General technical data	
Measuring functions	MIN, MAX, Average value
Units	µm, mm, mils
Display type	LCD
Display size	1,6 Inch
Display resolution	128 x 128
Measuring rate	2 x per second
Storage medium	Internal memory
Memory information	- Direct measurement: Measurement results are only stored temporarily in RAM and are deleted when the device is switched off; when the RAM is full, the oldest value is replaced by the latest. - Four data groups (automatic measurement data storage of a maximum of 2000 measured values) are retained when the device is switched off; when the memory is full, the device displays "FL".
Interface	Mini-USB
Automatic power-off	3 min
Housing	ABS (acrylonitrile-butadiene-styrene copolymers)
Alarm	optical
Calibration	One-point to four-point calibration, zero calibration
Alarm settings	0 ... 5250 µm
Menu language	German, English, Russian, Chinese
(Rechargeable) battery	2 x 1,5 V AAA battery , Alkali-manganese
Capacity	1200 mAh
Operating conditions	0 ... 50 °C , 20 ... 90 % RH
Storage conditions	-10 ... 60 °C , 20 ... 90 % RH
Dimensions (L x W x H)	110 x 53 x 24 mm
Weight	74,5 g