



Coating Thickness Gauge PCE-CT 65

Non-destructive coating and dry film thickness (DFT) measuring device for use on ferrous and non-ferrous metal substrates

PCE-CT 65 is a coating thickness gauge that 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.

The easy-to-use downloadable PC-compatible software included with this thickness gauge allows for detailed analysis of measurement results via computer. Measurement values are shown in a table and different working modes can be selected for data filtering. Statistics include the maximum, minimum and average value per working group. Statistics can be divided by ferrous and non-ferrous material. The software also counts how many readings have been stored in each material group. For more details, please refer to the user manual.

- Includes calibration shims and blocks for DIY accuracy testing, a carrying case for easy transport, and a 2-year warranty against manufacturer defects
- Optional ISO calibration certificate available for purchase separately - see accessories tab for details
- Features two measuring modes (ferrous and non-ferrous) with integrated sensors for comfortable, one-handed operation
- Saves up to 1500 measurements to memory
- Comes with a USB cable and downloadable PC software (see downloads tab) for detailed analysis of measurement results via computer

Technical Specifications PCE-CT 65

Principle	Magnetic induction
Measuring range	0 ... 1350 µm / 0 ... 53.1 mils
Accuracy	0 ... 1000 µm: (±2.5 % ±2 µm)
	1000 µm ... 1350 µm: ±3.5 %
	0 ... 39.3 mils: (±2 % ±0.08 mils)
	39.3 mils ... 53.1 mils: ±3.5 %
Resolution	0 ... 100 µm: 0.1 µm
	100 µm ... 1000 µm: 1 µm
	in 1000 mm ... 1350 µm: 0.01 mm
	0 ... 10 mils: 0.01 mils
10 mils ... 53.1 mils: 0 ... 1 mils	
Smallest surface	∅ 7 mm / ∅ 0.3 in
Min. curvature radius	1.5 mm / 0.05 in
Min. substrate thickness	0.5 mm / 0.02 in

Non-ferrous metals

Principle	Eddy current
Measuring range	0 ... 1350 µm / 0 ... 53.1 mils
Accuracy	0 ... 1000 µm: ±(2.5 % ±2 µm)
	1000 µm ... 1350 µm: ±3.5 %
	0 ... 39.3 mils: ±(2 % ±0.08 mils)
	39.3 mils ... 53.1 mils: ±3.5 %
Resolution	0 ... 100 µm: 0.1 .µm.m
	100 µm ... 1000 µm: 1 µm
	in 1000 mm ... 1350 µm: 0.01 mm
	0 ... 10 mils: 0.01 mils
10 mils ... 53.1 mils: 0 ... 1 mils	
Smallest surface	∅ 5 mm / ∅ 0.2 in
Min. curvature radius	3 mm / 0.1 in

Min. substrate thickness	0.3 mm / 0.01 in
Units	µm, mils
Functions	Alarm function, display lighting, automatic shutdown, calibration, memory function
Memory option	30 storage groups with a capacity of 50 measurements each = 1500 measurements total
Interface	USB
Environmental conditions	0 ... 40°C / 32° F ... 104°F, 20% ... 90% rh
Power supply	2 x 1.5V AAA batteries

Delivery Content:

- 1 x PCE-CT 65 Coating thickness gauge**
- 2 x 1.5V AAA batteries**
- 5 x Calibration shims**
- 2 x Calibration blocks (aluminum and iron)**
- 1 x USB cable**
- 1 x User manual**
- 1 x Carrying case**

Note: The PC software is available for download via the downloads tab of our website.