



Coating Thickness Gauge

PCE-CT 100



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PCE-CT 100 is a coating thickness measuring instrument used to quickly and easily determine coating thicknesses on ferrous (Fe) and non-ferrous (nFe) metals. This compact handheld coating thickness gauge uses magnetic induction (ISO 2178) and eddy current (ISO 2360) coating thickness measurement methods to take non-destructive measurements of coating and dry film thickness (DFT) on metal substrates such as steel and aluminum.

When accompanied by an external sensor probe (sensor probes sold separately - see accessories), this coating thickness gauge is ideal for painted and powder-coated surface testing, automotive and aircraft surface finish inspections, primed and coated materials 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, the device produces a visual and audible signal.

- ▶ Uses magnetic induction (ISO 2178) and eddy current (ISO 2360) coating thickness measurement methods
- ▶ Measures coating thickness on ferrous (Fe) and non-ferrous (nFe) metals
- ▶ Designed for non-destructive testing and inspection
- ▶ Saves up to 100,000 measurements to memory
- ▶ Data transfer via USB or Bluetooth interfaces
- ▶ Displays measuring units in μm , mm or mils
- ▶ Programmable alarm limits
- ▶ High measuring accuracy
- ▶ Two-point calibration
- ▶ High resolution
- ▶ Includes factory calibration certificate according to ISO 9001
- ▶ Sensor probes sold separately - see accessories for details

General Features PCE-CT 100

Resolution	0.1 or < 0.2% of the measured value (for probes with a measuring range of up to 1500 μm / 1.5 mm / 59 mil)
	1 or < 0.2% of the measured value (for probes with a measuring range of more than 1500 μm / 1.5 mm / 59 mil)
Display	High-resolution color display, backlit
Measuring units	μm , mm or mils
Menu languages	English, German, French, Italian, Spanish, Turkish, Czech, Chinese

Storage	Direct mode: Max. 1,000 measured values in Fe (Type F) and nFe (Type N) mode
	File memory: Max. 100,000 measured values
Calibration	Factory calibration
	Zero (one-point calibration)
	One-foil calibration (two-point calibration)
	Two-foil calibration
	Cal-through-coat calibration



Zero offset	Addition of a constant value to the measured value
Statistics parameters	N, \bar{x} , σ , Max, Min, Cp, Cpk, Kvar
On-screen statistics displayed	\bar{x} , σ , Max, Min
Alarm limits	Programmable with visual and audible signaling
Interfaces	USB 2.0, Bluetooth 4.0
Operating temperature	0 ... 50°C / 32 ... 122°F
Power supply	3 x 1.5V AA batteries
Dimensions	Approx. 163 x 82 x 40 mm / 6.42 x 3.23 x 1.58 in (H x W x D)
Weight	Approx. 290 g / 0.64 lb (including batteries)
Ingress protection rating	IP52 (protection against dust and dripping water)

Subject to change