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## Technical Surface Testing PCE-CT 100

### PCE-CT 100 Coating Thickness Gauge

**Non-destructive coating and dry film thickness (DFT) measuring device for use on ferrous (Fe) and non-ferrous (nFe) metal substrates / Includes factory calibration certificate according to ISO 9001**

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 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, 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  $\mu\text{m}$ , 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**

**Technical specifications:**

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, $\bar{x}$ , $\sigma$ , Max, Min, Cp, Cpk, Kvar
On-screen statistics displayed	$\bar{x}$ , $\sigma$ , 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 1.5 V AA batteries
Dimensions	Approx. 163 x 82 x 40 mm / 6.42 x 3.23 x 1.58" (H x W x D)
Weight	Approx. 290 g / 0.64 lb (including batteries)
Ingress protection rating	IP52 (protection against dust and dripping water)

**Delivery contents:**

- 1 x PCE-CT 100 coating thickness gauge
- 3 x 1.5 V AA batteries
- 1 x USB cable
- 1 x PC-compatible software
- 1 x factory calibration certificate according to ISO 9001
- 1 x user manual
- 1 x carrying case

**Note: Sensor probes sold separately - see accessories for details.**