Thickness Meter PCE-CT 80

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Coating thickness gauge for Fe and NFe / USB interface / Battery operation / Integrated data memory / Various sensors available

The paint layer thickness gauge PCE-CT 80 is a measuring device for the nondestructive measurement of coatings (paints, lacquers, plastics ...) on steel / iron and non-ferrous metals. Thanks to the externally connected sensor on the PCE-CT 80 ink layer thickness gauge, even difficult-to-reach measuring points can be easily achieved. The menu navigation of the paint thickness gauge allows easy adjustment and setting to new parameters and makes this handy paint coating thickness gauge an indispensable tool for control measurements in production, workshop and quality assurance. Includes FN1.5 probe in kit for 0 ... 1500 µm or 0 ... 59 mils measurements.

The color coating thickness gauge PCE-CT 80 is also ideally suited for detecting and assessing eg accident damage to motor vehicles immediately, but also in the industrial sector the paint thickness gauge can be optimally used in incoming and outgoing inspections as well as material testing in production.

The ergonomically shaped PCE-CT 80 ink layer thickness gauge with external sensor allows you to quickly determine measurement results with high accuracy. The paint thickness gauge measures non-magnetic layers such as paint, plastic, chrome, copper, zinc, enamel, etc. on steel / iron, and non-electrically conductive layers such as paint, plastic, enamel, paper, glass, rubber, etc. on copper, aluminum, brass and stainless steel, as well as anodized aluminum.

- For many materials such as, iron, steel, aluminum, copper, brass and stainless steel
- Measurements can not be influenced by vibrations
- Practical V-groove on the measuring heads
- Ergonomic design
- Warning for measurements outside the maximum measuring range
- Wear-resistant, spring-mounted measuring head for precise measurement results
- Various optional sensors available

Subject to change

Specifications

Measuring range	Fe: 0 to 5000 µm / 0 ... 196.9 mils
	NFe: 0 to 3000 µm / 0 ... 118.1 mils
Accuracy	± (2% of reading + 1 µm / 0.039 mils)
Resolution	0.1 µm (0.0039 mils) (< 100 µm / 3.94 mils)
	1 µm / 0.039 mils (> 100 µm / 3.94 mils)
Measurable materials	Non-magnetic layers on steel, iron, ...
	Non-electrically conductive layers on aluminum, copper, ...
Min. radius of curvature convex	5 mm / 0.2 in
Min. radius of curvature concave	25 mm / 1 in
Min. measuring surface	Ø17 mm / 0.7 in
Min. substrate thickness	0.2 mm / 0.08 in (on magnetic materials)
	0.05 mm / 0.002 in (on non-magnetic materials)
Probe mode	Autom. Mode with material detection (Fe + NFe)
	Magnetic mode (Fe)
	Eddy current mode (NFe)
Measurement mode	Single measurement
	continuous measurement
Calibration	Multipoint calibration (1 ... 4 points for each group)
	Zeroing
Units	µm, mm, mils
Data transfer	USB 2.0
Storage	A volatile measuring group (DIR mode)
	Four measuring groups with autom. Storage and max. 2000 readings (GEN mode)
Statistical functions	Number of Measured values, mean, minimum, maximum, standard deviation
Alarm	Display when the adjustable upper and lower alarm limits are exceeded
Operating time	Autom. Shutdown mode (3 min.)
Power supply	3 x 1.5V AAA batteries
Display	128 x 128 px LCD display
Indicators	Battery status
	Fault detection
Operating conditions	0 ... 50°C / 32 ... 122°F
	20 ... 90% RH not condensing
Storage conditions	-10 ... 60°C / 14 ... 140°F
	20 ... 90% RH not condensing
Dimensions	(L x W x H) 143 x 71 x 37 mm / 5.6 x 2.8 x 1.5 in
Weight	With sensor and batteries: approx. 271 g / < 1 lb