

Material Tester PCE-CT 80-FN1D5



**Material tester for Fe and NFe / USB interface / Battery operation /
Integrated data storage**

The material tester is a measuring device for the non-destructive measurement of coatings (varnishes, paints, plastics ...) on steel / iron and non-ferrous metals. Thanks to the externally connected sensor on the coating thickness gauge, measuring points that are difficult to access can also be easily reached. The menu navigation of the coating thickness gauge allows easy adjustment and setting to new parameters and makes this handy coating thickness gauge an indispensable measuring device for control measurements in production, workshop and quality assurance.

The material tester is also ideal for immediately determining and assessing accident damage to vehicles, for example, but the coating thickness gauge can also be used optimally in the industrial sector for incoming and outgoing inspection and material testing in production.

The ergonomically designed material tester with external sensor allows you to rapidly determine measurement results with high accuracy. The coating thickness gauge measures non-magnetic layers such as paint, plastic, chrome, copper, zinc, enamel, etc. on steel/iron, as well as non-conductive layers such as paint, plastic, enamel, paper, glass, rubber, etc. on copper, aluminum, brass and stainless steel, as well as anodized aluminum.

- ▶ For measurements on iron/steel and non-ferrous metals
- ▶ Measurements cannot be influenced by vibrations
- ▶ Practical V-groove on the measuring heads
- ▶ Ergonomic design
- ▶ Warning message for measurements outside the maximum measuring range
- ▶ Wear-resistant, spring-mounted measuring head for precise measuring results

Specifications

Measuring range	Fe: 0 ... 1500 µm NFe: 0 ... 1500 µm
Accuracy	±(2 % of reading + 1 µm)
Resolution	0.1 µm (<100 µm) 1 µm (>100 µm)
Measurable materials	For measurements on iron/steel and non-ferrous metals
Min. radius of curvature convex	5 mm / 0.19"
Min. radius of curvature concave	25 mm / 0.98"
Min. measuring surface	Ø17 mm / 0.67"
Min. substrate thickness	0.2 mm / 0.008" (on magnetic materials) 0.05 mm / 0.002" (on non-magnetic materials)
Probe mode	Autom. mode with material detection (Fe + NFe) Magnetic mode (Fe) Eddy current mode (NFe)
Calibration	Multipoint calibration (1 ... 4 points for each group) Zero-point calibration
Units	µm, mm, mils
Data transfer	USB 2.0
Memory	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 1.5 V 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 non-condensing
Storage conditions	-10 ... +60 °C / 14 ... 140 °F 20 ... 90 % RH non-condensing
Dimensions	143 x 71 x 37 mm / 5.6 x 2.8 x 1.5" (L x W x H)
Weight	With sensor and batteries: ca. 271 g / 9.5 oz

More information

Manual



Datasheet



Software Manual



More product info



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