

Coating Thickness Gauge PCE-CT 80HP-FN0D5-ICA incl. ISO-Calibration Certificate







Coating thickness gauge with V-groove sensor / Measuring range from up to 0 ... 5000 μ m / Adjustable alarm limits / Robust housing / Software / Data storage / High accuracy of up to $\pm (1.0\%$ of reading + 0.5 μ m) / Optionally with ISO calibration certificate

The coating thickness gauge can reliably determine the thickness of, for example, plastics, paints and other coatings on ferrous and non-ferrous metals. With a measuring range of up to 0 ... 5000 μ m on ferrous metals, the coating thickness gauge covers a wide range of measuring tasks. Because of the accuracy of up to $\pm (1.0\% \text{ of mv.} + 0.5 \mu\text{m})$, the coating thickness gauge is a very precise measuring device. The sensor on the coating thickness gauge has a V-groove. Thanks to this V-groove, it is possible to carry out measurements on convex surfaces with the coating thickness gauge. In addition to the convex surfaces, measurements can also be carried out on concave surfaces with the coating thickness gauge.

During the measurements, the measured values can be saved on the coating thickness gauge. A memory of a maximum of 2,000 measured values is available for the coating thickness gauge. After a measurement run, the measured values from the coating thickness gauge can be transferred to a computer and analyzed using the software. For further processing of the measured values, they can be exported in CSV format.

A target/actual range can be stored with the limit value alarm function on the coating thickness gauge. If the test object is within the stored area at the coating thickness gauge, this is signaled by a green LED. If the measured value is outside the set range, this is indicated by a red LED from the coating thickness gauge. Because of the limit value alarm function, the coating thickness gauge is used, for example, in incoming and final inspection for quality assurance.

For a special protection of the electronics, the housing of the coating thickness gauge is additionally rubberized. Optionally, the coating thickness gauge can be equipped with an ISO calibration certificate.

- Practical V-groove on the measuring heads
- ► High accuracy for small coatings
- Adjustable limit values
- ▶ Data memory for 2000 readings
- Measuring range of up to 0 ... 5000 μm
- Optionally with ISO calibration certificate

Subject to change

Specifications

Accuracy after foil

Measuring range

Fe: 0 ... 500 μ m, NFe: 0 ... 500 μ m $\pm (1.0 \% \text{ of measured value} + 0.5 <math>\mu$ m)

calibration

Accuracy after zeroing $\pm (1.0 \% \text{ of measured value} + 0.7 \mu\text{m})$

Probe diameter

Ø17 mm / 0.67"

Resolution 0.1 μ m (<100 μ m), 1 μ m (>100 μ m)

Measurable materials

Fe substrates such as: Fe substrates such as: steel and iron

NFe substrates such as: NFe substrates such as: aluminum and copper

Min. radius of curvature 5 mm / 0.19"

convex

Min. radius of curvature

concave

25 mm / 0.98"

Min. measuring surface Ø17 mm / 0.67"

Min. layer thickness 0.2 mm / 0.007" (on magnetic materials)

0.05 mm / 0.002" (on non-magnetic materials)

Probe mode Auto material detection mode (Fe + NFe)

Magnet mode (Fe)

Eddy current mode (NFe)

Calibration Multi-point calibration

(1 ... 4 points for each group)

Zero calibration

Units µm, mm, mils

Data transfer USB 2.0

Memory A volatile measurement group (DIR mode)

Four measurement groups with autom.

storage and max. 2000 readings (GEN mode)

Statistics functions Number of measured values, mean,

minimum, maximum, standard deviation

Alarm Display when the adjustable value is exceeded

upper and lower alarm limit

Automatic shutdown auto. shutdown mode (3 min.)

Power supply 3 x 1.5 V AAA batteries

Display 128 x 128 px LCD display

Additional displays battery status, error detection

Operating conditions $0 \dots +50 \,^{\circ}\text{C} / 32 \dots 122 \,^{\circ}\text{F}$

20 ... 90 % RH non-condensing

Storage conditions $-10 \dots +60 \,^{\circ}\text{C} / 14 \dots 140 \,^{\circ}\text{F}$

20 ... 90 % RH non-condensing

Dimensions $143 \times 71 \times 37 \text{ mm} / 5.6 \times 2.8 \times 1.4 \text{" (L x W x H)}$ Weight with sensor and batteries: 271 g / 9.5 oz

More information

Datasheet



More product info



Similar products

