COATING THICKNESS GAUGE PCE-CT 80 SERIES

Paint layer thickness gauge for Fe and NFe

The paint layer thickness gauge PCE-CT 80 is a measuring device for the non-destructive measurement of coatings (lacquers, paints, plastics ...) on steel / iron and non-ferrous metals. Thanks to the externally connected sensor on the PCE-CT 80 paint coating thickness gauge, even difficult-to-reach measuring locations can be easily reached.

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.

ISO cal option

► for many materials such as iron, steel, aluminium, copper, brass and stainless steel
► measurements cannot be influenced by vibrations
► practical V-groove on the measuring heads
► internal data memory
► warning for measurements exceeding the measuring range
► wear-resistant, spring-mounted measuring head for precise measurement results
► incl. ISO laboratory calibration with certificate
► probe PCE-CT 80-FN1.5 included
► Measurement range Fe: 0 … 1500, NFe: 0 … 1500

APPLICATION

TECHNICAL SPECIFICATIONS

Measurement range	Fe: 0 ... 5000 µm / 0 ... 196.9 mils (depending on probe)
	NFe: 0 ... 3000 µm / 0 ... 118.1 mils (depending on probe)
Accuracy	±(2 % of rdg. + 1 µm / 0.039 mils)
Resolution	0.1 µm (< 100 µm)
	1 µm (> 100 µm)
Measurable materials	Non-magnetic layers on steel, iron, ...
	Non-electrically conductive layers on aluminium, copper, ...
Min. radius of curvature convex	5 mm
Min. radius of curvature concave	25 mm
Min. measuring surface	Ø 17 mm
Min. layer thickness	0.2 mm (on magnetic materials)
	0.05 mm (on non-magnetic materials)
Probe mode	Autom. mode with material detection (Fe + NFe)
	Magnetic mode (Fe)
	Eddy current mode (NFe)
Measurement modes	Single measurement
	Continuous measurement
Calibration	Multipoint calibration (1 ... 4 points for each group) zero point calibration
Units	µm, mm, mils
Data transfer	USB 2.0
Memory	One 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	Auto Power Off mode (3 min)
Power supply	3 x 1.5 V AAA batteries
Display	128 x 128 px LCD
Displayed information	Battery status / flaw 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	143 x 71 x 37 mm / 5.6 x 2.8 x 1.5 in (L x W x H)
Weight	with sensor and batteries: approx. 271 g / <1 lb

Further models:

PCE-CT 80HP	**High accuracy of up to ±(1.0 % of Mw. + 0.5 µm)**
PCE-CT 80HP-F5N3	Measurement range: Fe: 0 ... 5000 µm, NFe: 0 ... 3000 µm
PCE-CT 80HP-FN0D5	Measurement range: Fe: 0 ... 500 µm, NFe: 0 ... 500 µm
PCE-CT 80HP-FN1D5	Measurement range: Fe: 0 ... 1500 µm, NFe: 0 ... 1500 µm
PCE-CT 80HP-FN2	Measurement range: Fe: 0 ... 2000 µm, NFe: 0 ... 2000 µm
PCE-CT 80HP-FN2D5	Measurement range: Fe: 0 ... 2500 µm, NFe: 0 ... 2500 µm
PCE-CT 80HP-FN3	Measurement range: Fe: 0 ... 3000 µm, NFe: 0 ... 3000 µm

Optional accessories:

Probe	PCE-CT 80-FN0.5	Measurement range: Fe: 0 … 500, NFe: 0 … 500
Probe	PCE-CT 80-FN2	Measurement range: Fe: 0 … 2000, NFe: 0 … 2000
Probe	PCE-CT 80-FN2.5	Measurement range: Fe: 0 … 2500, NFe: 0 … 2500
Probe	PCE-CT 80-FN3	Measurement range: Fe: 0 … 3000, NFe: 0 … 3000
Probe	PCE-CT 80-F5N.3	Measurement range: Fe: 0 … 5000, NFe: 0 … 3000

Subject to change without notice