Automotive Tester PCE-CT 90-ICA Incl. ISO Calibration Certificate

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Coating thickness gauge with various sensors / Measuring range up to 60 mm / Automatic sensor detection / Temperature, roughness, dew point, ambient humidity / Coating thickness measurement for Fe and NFe measurements / For mobile use

The coating thickness gauge is a versatile measuring instrument. This is made possible by the various optional sensors on the layer thickness gauge. For example, the coating thickness gauge can easily measure the layer thicknesses of paints, galvanic coatings, galvanizing or even anodic oxide layers on metal. With the sensors, for example, layer thickness measurements with a thickness of up to 60 mm are possible.

In addition to the layer thickness sensors for the layer thickness gauge, there is also the climate sensor. With this climate sensor at the coating thickness gauge, the ambient temperature, the ambient humidity and the dew point can be measured. Also, in the film thickness gauge, there is the surface temperature sensor. Thanks to the surface temperature sensor, the surface temperature of an object in a measuring range of -50 ... 125°C / -58 ... 257°F can be determined with the Coating Thickness Gauge.

In addition, the roughness of surfaces can be determined with the layer thickness gauge. This is made possible by the optional roughness meter. With the roughness sensor from the layer thickness gauge, the Rz value of the surface can be determined within a very short time. The measuring range here is between 0 ... 300 µm.

- Different sensors
- Measuring range up to 60 mm
- Automatic sensor detection
- Zero point and one-point calibration
- Power supply 2 x 1.5V AAA batteries
- Temperature measurement up to 125°C / 257°F

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Specifications

Measuring range	sensor-dependent (see sensor table)
Accuracy	sensor-dependent (see sensor table)
Measurable materials	magnetic materials (iron, steel ...) non-magnetic materials (paints, plastics, ceramics, ...)
Min. radius of curvature	0.3 ... 50 mm /0.012 ... 1.97" (depending on the sensor used)
Calibration	Zero calibration, one-point calibration
Units	µm, mm, °C
Power supply	2 x 1.5 V AAA batteries (DC)
Display	Graphic display
Operating conditions	-10 ... 40 °C / 14 ... 104 °F, 20 ... 98% r. H., non-condensing at 35 °C / 95 °F
Storage conditions	5 ... 40 °C / 41 ... 104°F, 80% r. H., non-condensing at 25 °C / 77 °F
Dimensions	136 x 75 x 32 mm / 5.4 x 3 x 1.3"
Weight	168 g / < 1 lb

Sensor table

Model	Measuring range	Accuracy	Measurement Description
Fe-0.3*	0 ... 300 µm	±(3 % + 1 µm)	Paint, lacquer, galvanic coating
Fe-0.5*	0 ... 500 µm	±(3 % + 1 µm)	Paint, lacquer, galvanic coating
Fe-2*	0 ... 2000 µm	±(3 % + 2 µm)	Paint, lacquer
Fe-5*	0 ... 5000 µm	±(3 % + 2 µm)	Lacquer and thick coating
NFe-2**	0 ... 2000 µm	±(3 % + 2 µm)	Anodic oxidelayer, lacquer layers
M12***	0 ... 12 mm / 0 ... 0.47"	±(3 % + 0.01 mm)	Thick coating
M30***	0 ... 30 mm / 0 ... 1.18"	±(3 % + 0.02 mm)	Thick coating
M60***	0 ... 60 mm / 0 ... 2.36"	±(3 % + 0.03 mm)	Thick coating
DT	-50 ... 125°C / -58 ... 257 °F	±1 °C	Surface temperature
DTVR	Temperature: -50 ... 125 °C / -58 ... 257 °F	±1 °C	Air temperature
	Humidity: 0 ... 100 %	±5 %	Humidity
	Dew point: -15 ...+40 °C / 5 ... 104 °F	±2 °C	Dew point
DSH	1 ... 300 µm	±(3 % + 2 µm)	Roughness

*** Fe:** only for ferromagnetic substrates

**** NFe:**only for non-ferromagnetic substrates

***** Fe und NFe:**for ferromagnetic and non-ferromagnetic substrates

More information

Manual

More product info

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