

Coating Thickness Gauge TIME®2510E

Digital coating thickness gauge with permanently attached cable probe and two measuring principles for the non-destructive measurement of coatings: magnetic induction (probe F) for non-magnetic coatings on magnetic base materials and eddy current (probe N) for insulating coatings on non-magnetic metals. The base material is recognised automatically. Typical applications are paint inspection, automotive paint testing, testing of coated materials and quality control.

Features

- Two measuring principles: magnetic induction (ferrous) and eddy current (non-ferrous) – non-destructive measurement
- Permanently attached cable probe (no plug connector)
- Automatic recognition of the substrate
- Zero-point and two-point calibration to correct the system error of the probe
- Two working modes: DIRECT and BATCH, two measuring ways: CONTINUE and SINGLE
- Statistics: mean, maximum, minimum, number of readings and standard deviation
- Memory for 600 readings
- Deletion of current data, calibration data, limit data or all stored data
- Low battery indication and error alarm
- Buzzer signal during operation
- Automatic or manual shutdown

Scope of delivery

- Main unit with permanently attached cable probe
- Substrate (2 pcs)
- Calibration foil
- Instruction manual

Optional Accessories

- Connecting cable
- Dataview software

Technical Data

Parameter	Probe F	Probe N
Measuring principle	Magnetic induction	Eddy current
Measuring range	0 – 1250 µm	0 – 1250 µm 0 – 40 µm (chrome plate on copper)
Resolution	0.1 µm	
Tolerance zero point (H = reading)	±(3 % H + 1) µm	±(3 % H + 1.5) µm
Tolerance two-point (H = reading)	±[(1 % to 3 %) H + 1] µm	±[(1 % to 3 %) H + 1.5] µm
Min. radius of curvature (convex)	1.5 mm	3 mm
Min. test area	Ø 7 mm	Ø 5 mm
Critical substrate thickness	0.5 mm	0.3 mm
Working modes / memory	DIRECT, BATCH / CONTINUE, SINGLE / 600 readings	
Power supply	2 × AAA 1.5 V batteries	
Working environment	0 – 40 °C, humidity 20 – 90 %, no strong magnetic field	
Dimensions / weight	110 × 50 × 23 mm / 100 g	

Technical changes reserved.

SaluTron® GmbH
Herstellung und Vertrieb von Messgeräten

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BEIJING TIME HIGH TECHNOLOGY LTD.

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