

Coating Thickness Gauges TIME®2500 / TIME®2501

Compact, low-cost digital coating thickness gauges with integrated probe for the non-destructive measurement of coatings. The TIME®2500 works on the magnetic induction principle (probe F) for non-magnetic coatings on magnetic base materials, the TIME®2501 on the eddy current principle (probe N) for insulating coatings on non-magnetic metals. Typical applications are paint inspection, automotive paint testing and quality control.

Features

- TIME®2500 with probe F: magnetic induction – non-magnetic coatings (paint, plastic, enamel, copper, zinc, aluminium, chrome, etc.) on iron, steel and nickel
- TIME®2501 with probe N: eddy current – insulating coatings (enamel, rubber, paint, plastic) on copper, aluminium, zinc, tin, etc.
- 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 500 readings
- Deletion of current data, calibration data, limit data or all stored data
- Low battery indication and error alarm
- Buzzer signal and backlit display
- Automatic or manual shutdown

Scope of delivery

- Main unit with integrated probe
- Calibration foil set
- Substrate (zero plate)
- AAA 1.5 V batteries (2 pcs)
- Instruction manual

Optional Accessories

- Printer TA230

Technical Data

Parameter	TIME®2500	TIME®2501
Measuring principle	Magnetic induction (probe F)	Eddy current (probe N)
Measuring range / resolution	0 – 1250 µm / 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 / concave 9 mm	convex 3 mm / concave 10 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 / 500 readings	
Power supply	2 × AAA 1.5 V batteries	
Working environment	0 – 40 °C, humidity 20 – 90 %	
Dimensions / weight	145 × 60 × 28 mm / 132 g	

Technical changes reserved.

MESSTECHNIK SaluTron® GmbH
Herstellung und Vertrieb von Messgeräten

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