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Coating Thickness Gauge MCT200



Overview

This instrument is a portable coating thickness gauge. It can test the coating thickness swiftly and accurately without damage but also can test the thin film thickness. It can be used widely for testing in manufacturing industry, metal-processing industry, chemical industry, commodity inspection and more. It is the professional and necessary instrument for material and product quality analysis.

Specifications:

- Measuring principle: Magnetic induction & Eddy current
- Measuring range: (0~1250) μm , depends on probes. maximum 10mm for the probe F10. Refer to Appendix.
- Low range resolution: 0.1 μm
- Accuracy: $\pm(3\%\text{Thickness}+1)$ μm , depends on probes and conditions
- Display: 4 digits LCD with EL backlight
- Memory for up to 20 files (up to 50 values for each file) of stored values.
- Unit system: Metric (μm) & Imperial (mil)
- Power source: Two "AA" size, 1.5 Volt alkaline batteries. 200 hours typical operating time (EL backlight off).
- Communication: USB1.1

- Dimensions: 125mmx67mmx31 mm
- Weight: 340g

Features

- With different external probes, the gauge can be applied to measuring thickness of non-magnetic coating on magnetic metal substrate, as well as non-conductive coating on non-magnetic metal substrate.
- Five types of probes (F400, F1, F10, N1, CN02) are available for different applications. F10 probe measures up to 10mm.
- Two measuring modes: single or continuous, changeable.
- Two calibration methods can be applied to the gauge; The system error of the probe can be corrected with the basic probe calibration method.
- Measured values and user information are shown on a large, easy-to-read LCD. A display backlight ensures easy reading of screen data under poorly-lit conditions.
- Measuring status indicator
- The gauges' user-friendly measuring system permits automatic storage of up to 1000 readings in one memory matrix for later statistical evaluation.
- Battery information indicates the remaining capacity of the battery.
- Auto sleep and auto power off functions to conserve battery life.
- USB1.1 communication port. Optional software to process the stored data on PC.
- Compact aluminum case suitable for use under poor working environments.

Configuration

	No.	Item	Quantity	Remarks
Standard Config.	1	Main unit	1	
	2	Probe	1	F1 or N1
	3	Calibration Foils	5 PCS	
	4	Zero plate	1	Iron or Aluminum
	5	Instrument case	1	
	6	Manual	1	
	7	Alkaline Battery	2 PCS	AA size
	8			
Optional Config.	9	Other type of probes		
	10	DataPro software	1	On CD
	11	USB cable	1	

Working Conditions:

- Working temperature: $-10\text{C}\sim+50\text{C}$;
- Storage temperature: $-30\text{C}\sim+60\text{C}$;
- Relative humidity: $\leq 90\%$;
- The surrounding environment should be minimized of vibration, strong magnetic fields, corrosive medium and heavy dust.