

MIDLAND METROLOGY LIMITED

COATING THICKNESS GAUGE CODE:iCoat-100



- Dual Measurement Methods: Magnetic and eddy current methods for measuring non-magnetic coatings on magnetic metals and non-conductive coatings on non-magnetic metals. Wide application range for various substrate materials.

- Measurement Modes: Continuous and single measurement options, with high-precision mode averaging multiple readings and filtering suspicious data. Fast mode real allows-time scanning for diverse scenarios.

- Temperature Compensation: Leading real-time technology compensates for errors due to environmental and probe temperature changes, ensuring accuracy across different conditions.

- Data Analysis and Calibration: Five statistical values for data analysis; zero point, single point, and two-point calibration methods; and probe error correction for accurate measurements.

- Data Storage and Management: Stores up to 500 measurement values for easy recording and processing. Individual or bulk data deletion for re-measurement or error correction.

- User-Friendly Operation: Buzzing sound for operation, clear interface, various shutdown methods, adjustable timeout, and power level indicator for enhanced user experience.

STANDARD DELIVERY

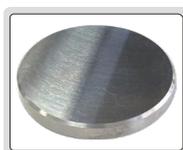
Main Unit	1 pc
Iron Plate	1 pc
Aluminum Plate	1 pc
Calibration Foils	5 pcs
Package Case	1 pc
No.5 Alkaline Battery (1.5V)	3 pcs



Calibration Foils



Aluminum Plate



Iron Plate



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TECHNICAL SPECIFICATION

Probe Type	F	N
Measuring Range	0~1500μm	0~1500μm Copper plated grid 0~40μm
Working Principle	Magnetic	Eddy
Resolution	0.1μm	
Accuracy	Zero-point Calibration	±(3%H+1)μm
	Two-point Calibration	±[(1~3)%H+1]μm
	Minimum radius of curvature	Convex 3mm
Test Conditions	Minimum area diameter	Φ7mm
	Matrix critical thickness	0.5mm
		0.3mm
Using Environment	Temperature: 0 °C~40 °C Humidity: 20% Rh~90% Rh No Strong Magnetic Field Environment	
Power Supply	3*AA Alkaline batteries	
Weight	About 70g	
Dimensions	114×58×29mm	

Statistics

STATISTICS	VALUE STATISTICS	VALUE STATISTICS	WAVEFORM	WAVEFORM
Statistics	1 993.8 μm	Num 5		
Test Value	2 999.6 μm	Avg 996.28 μm	unit: μm	unit: μm
Waveform	3 991.9 μm	Max 999.56 μm	1/1	1/1
BACK ↑ ↓ OK	4 999.6 μm	Min 991.88 μm		
	5 996.6 μm	Stdev 3.44 μm		
	BACK ↑ ↓ OK	BACK ↑ ↓ OK		

Calibration

CALIBRATION
→ 1. measure on BASE
2. measure (1000 μm)
ESC SKIP

Menu Interface

MENU	TOLERANCE LIMIT	INFO
Tolerance Limit	Upper Limit	Version: V3.00
Test Set	Lower Limit	Probe: NIF1
Info	Limit On/Off	Ser.No: CT250106D001
BACK ↑ ↓ OK	BACK ↑ ↓ OK	Version Time: Nov 22 2022
		BACK

Test Set

TEST SET	TEST SET	TEST SET	TEST MODE
Auto Save	Auto Save	Continuous Mode	NC/NF
Continuous Mode	Continuous Mode	Test Mode	NF/FE
Test Mode	Test Mode	Key Sound	AUTO
BACK ↑ ↓ OK	BACK ↑ ↓ OK	BACK ↑ ↓ OK	BACK ↑ ↓ OK
TEST SET	DISPLAY ACCURACY	AUTO FILE1 18:52	AUTO POWER OFF
Key Sound	Low	996.59 μm	Short (2 min)
Display Accuracy	Medium	N:5 x̄:996.28 σ:3.44	Long (10 min)
Units	High	Del Stat Cal Menu	Off
BACK ↑ ↓ OK	BACK ↑ ↓ OK		BACK ↑ ↓ OK