Mikrosize®

iCoat-200

Coating Thickness Gauge

Video

Contact us

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Mikrosize®

Product Features and Application

Product Features

- Both magnetic and eddy current thickness measurement methods, it can measure the thickness of non-magnetic coatings on magnetic metal substrates and non-conductive coatings on non-magnetic metal substrates.
- Two Meauring Methods:Continuous and single measurement methods
- Three measuring modes:The high-precision measuring mode can take the average of multiple measurements and automatically filter suspicious data to ensure more accurate and stable measurement values; The fast measurement mode can achieve real-time scanning function;
- Equipped with temperature compensation function: The leading real-time temperature compensation technology can automatically compensate for measurement errors caused by changes in ambient temperature and probe temperature, making measurements more accurate;
- Five statistical values: Mean(MEAN), Maximum(MAX) , Minimum (MIN), Number of Tests (NO.), and Standard Deviation (S.DEV) ;
- Zero point calibration, single point calibration, or two-point calibration methods can be used to calibrate the instrument, and basic calibration and temperature coefficient calibration methods can be used to correct the systematic errors of the measuring probe.

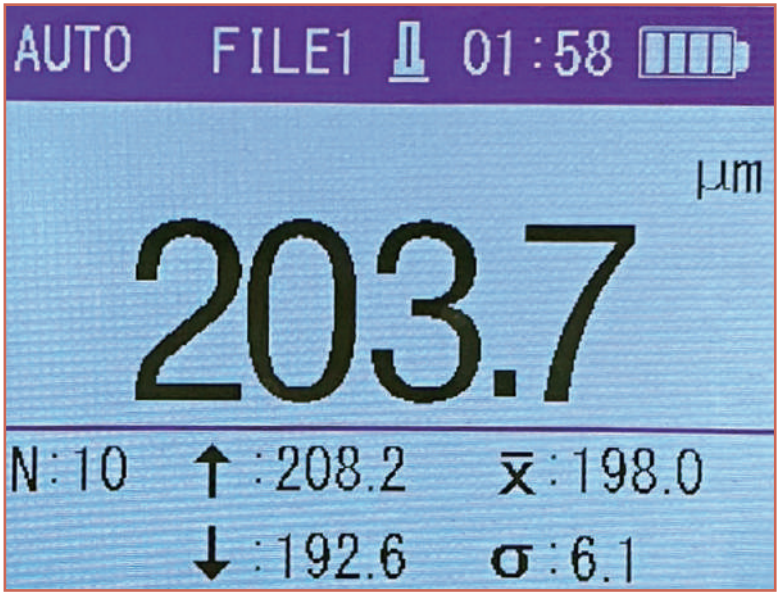
Product Application

- Used for precise measurement of coating and plating thickness on the surface of metal components;
- It can detect the coating thickness on the surface of chemical equipment

Operation Interface

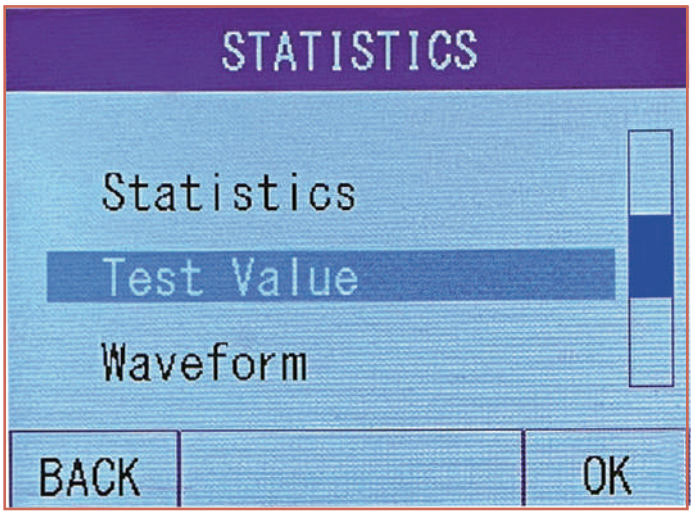
1. Power On/Off Button **2. Delete Button** **3. Statistics Button** **4. Menu Button**
5. Calibration Button **6. Confirm Button** **7. Downward Scroll Button**
8. Upward Scroll Button **9. Return Button**

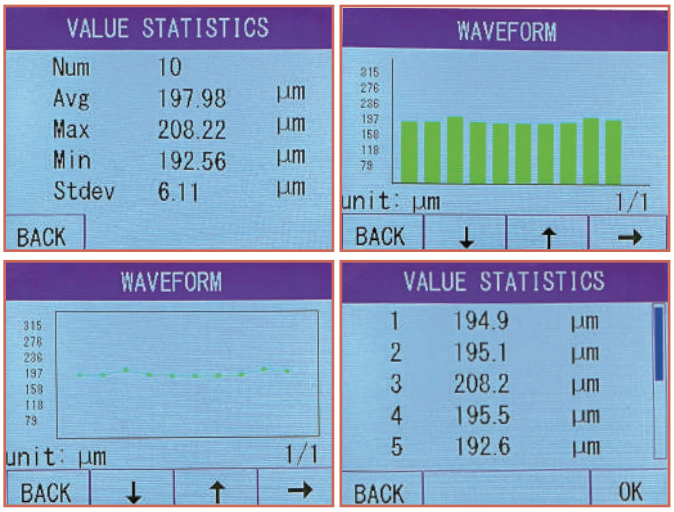
Interface Display



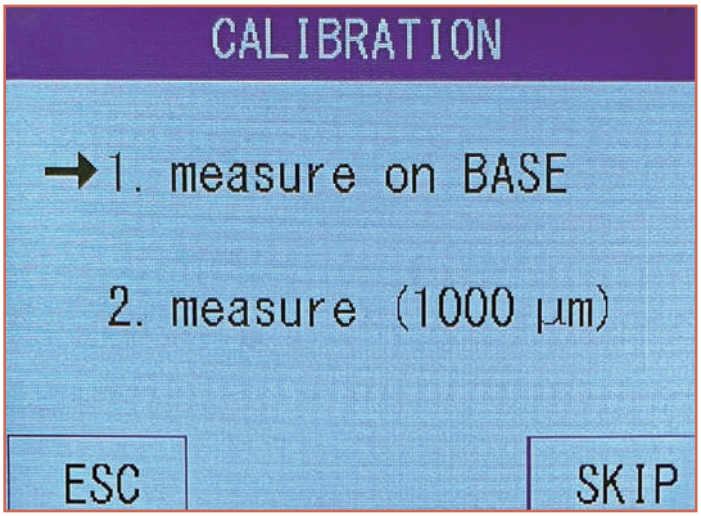
1. Measurement Mode 2. Current Stored File 3. Probe Connection Status
4. Time 5. Battery Level 6. Current Measurement Data 7. Measurement Unit
8. Number of Measurements 9. Maximum Measured Value 10. Average Measured Value
11. Minimum Measured Value 12. Standard Deviation of Measured Values

Operation Interface





Users can view statistical data, individual measurement data, and data waveforms on this interface; Convenient for users to organize clear data

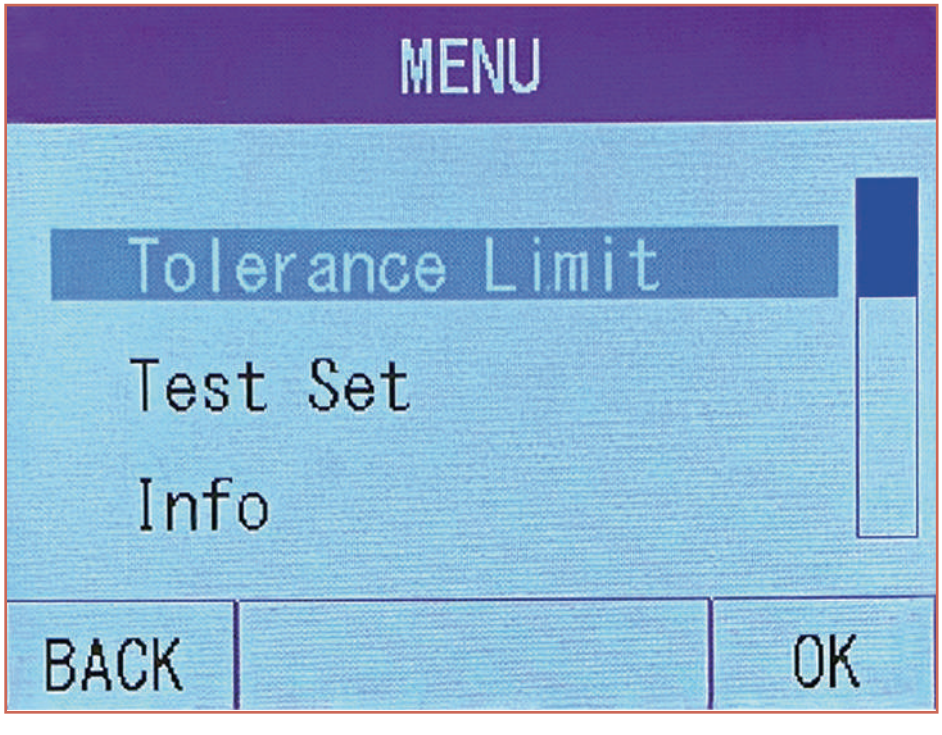


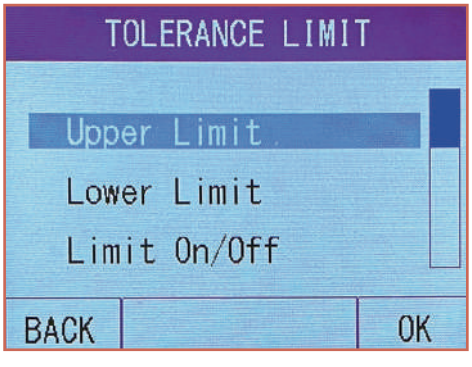
Calibration

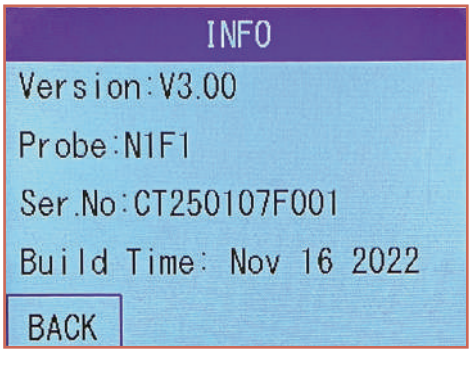
This instrument provides two calibration methods used in measurement: zero point calibration and two-point calibration; Users can choose zero point calibration or two-point calibration according to their needs;

Menu Interface

The menu interface functions include:Tolerance Limit, Test Set, Product Info.



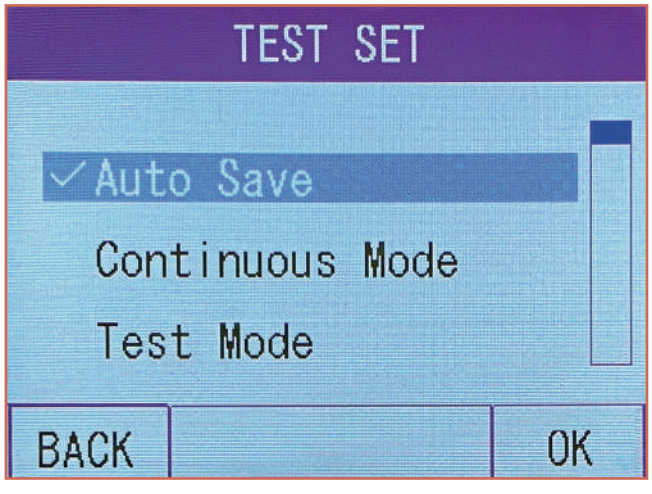




- Users can set upper and lower limit alarm functions and alarm function switches to facilitate quick detection of whether the tested product is qualified;
- Users can view product information on this interface, including instrument version, probe type, serial number, etc;

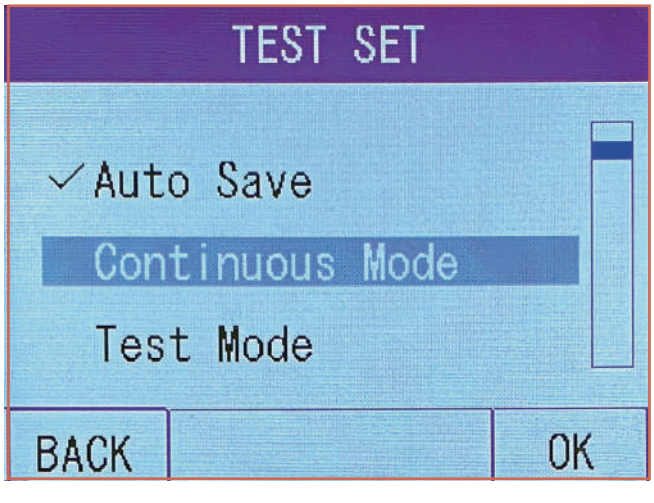
Setting Interface

The Test Set includes: "Auto Save ", "Continuous Mode", "Test Mode", "Sound Signal", "Display Accuracy", "Units", "Time Set", "Group Mode", "Language", " Auto Power Off";



Auto Save

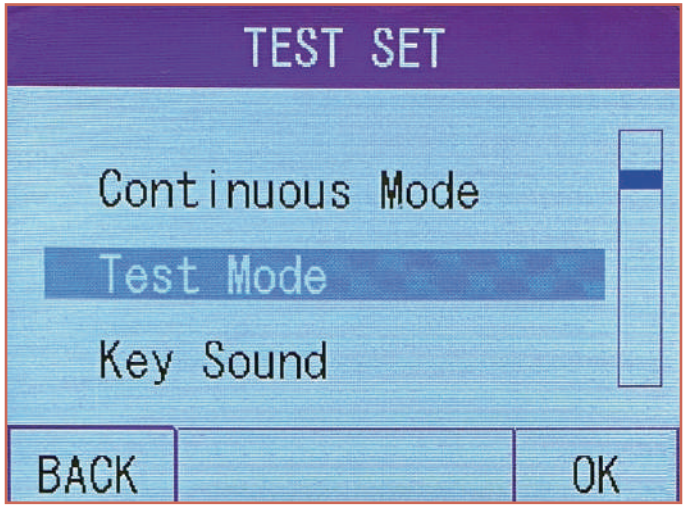
Users can choose to turn on or off the automatic storage reading function;

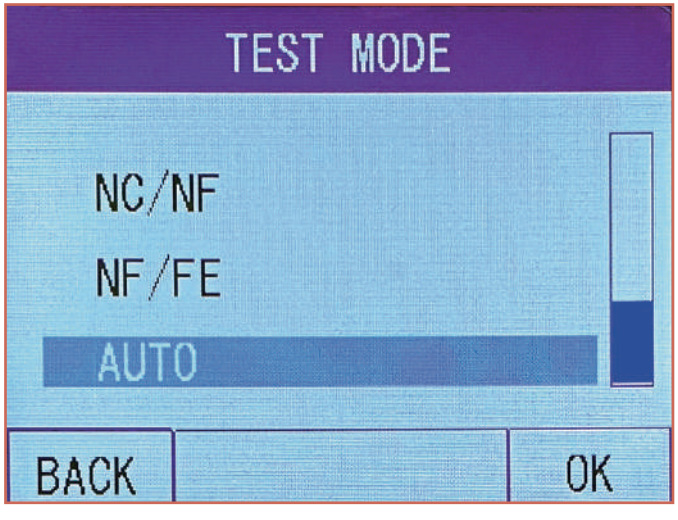


Continuous Mode

The measured data can be displayed in a single or continuous manner;

Setting Interface

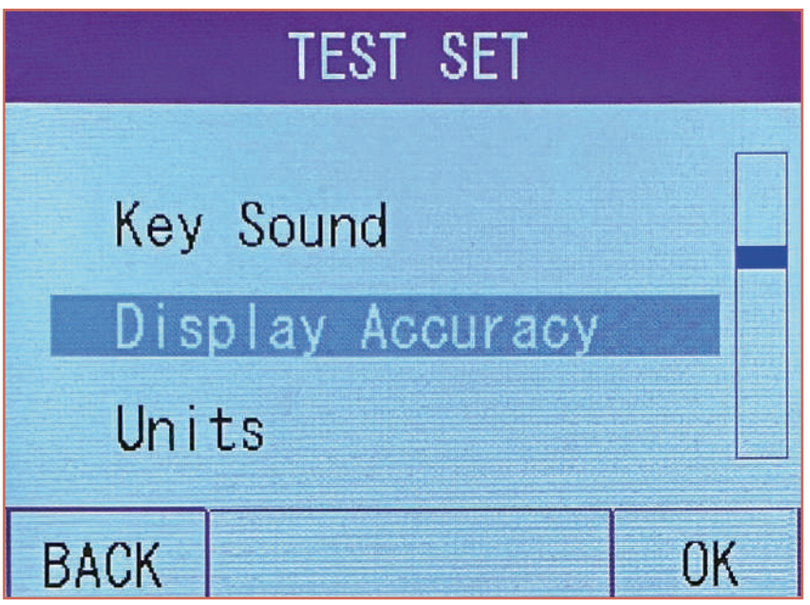


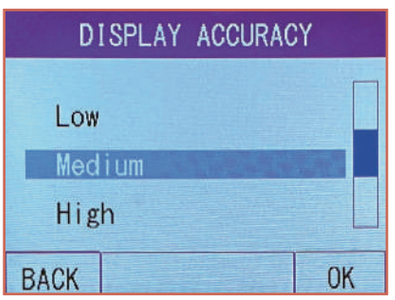


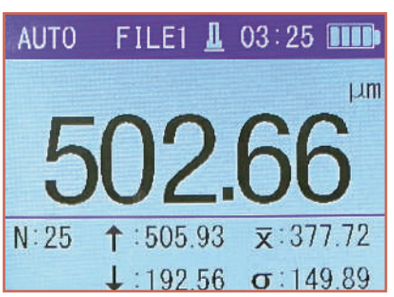
Test Mode

The measurement mode can be switched to Eddy Current, Magnetic Induction, or Dual-Use.

Setting Interface

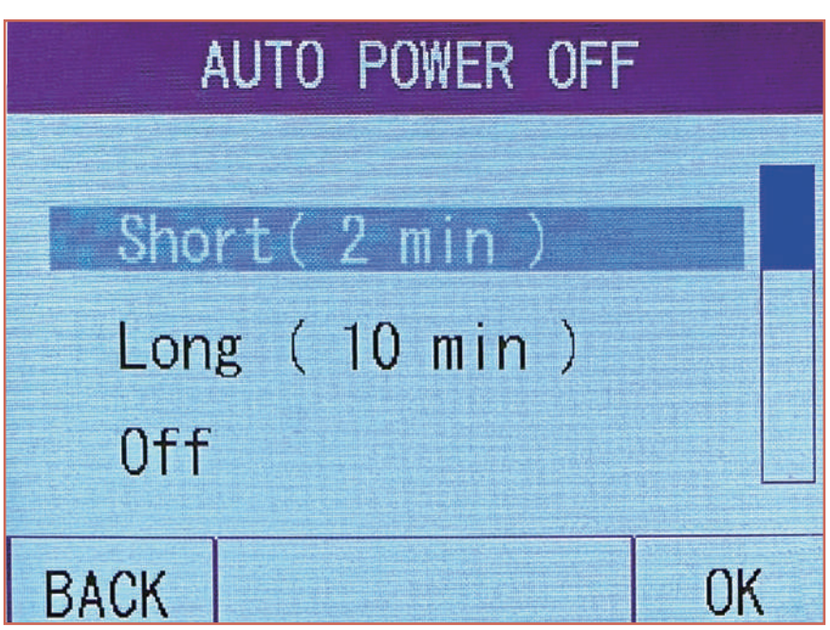






Display Accuracy

Measurement accuracy includes: low, medium, and high; Users can choose the appropriate measurement accuracy according to their needs;



Auto Power Off

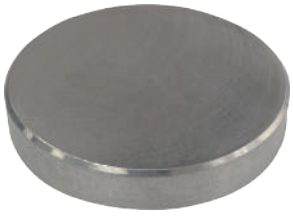
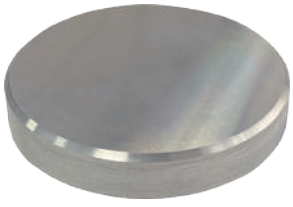
Users can set automatic shutdown time: 2 minutes, 10 minutes, or Off;

Mikrosize®

Technical Specification

Probe Type		F	N
Measuring Range		0~1500μm	0~1500μm Copper plated grid 0~40μm
Working Principle		Magnetic	Eddy
Resolution		0.1μm(0~99μm), 1μm(>99μm)	
Accuracy	**Zero-point Calibration**	±(3%H+1)μm	±(3%H+1.5)μm
	Two-point Calibration	±[(1~3)%H+1]μm	±[(1~3)%H+1.5]μm
Test Conditions	**Minimum radius of curvature**	Convex 3mm	
	Minimum area diameter	Φ7mm	
	Matrix critical thickness	0.5mm	0.3mm
Using Environment		Temperature: 0 ℃~40 ℃ Humidity: 20% Rh~90% Rh No Strong Magnetic Field Environment	
Power		2*AA Alkaline batteries	
Weight		About 240g	
Dimensions		151×76×38mm	

Standard Delivery

Item	Qty	
Main Unit	1unit	
Iron Substrate	1pc	
Aluminum Substrate	1pc	
Calibration Block	5pcs	
Documents	1set	
No.5 Alkaline battery (1.5V)	1set	
Instrument Case	1case	