Mikrosize®

# iCoat-200

## Coating Thickness Gauge

Video


## Contact us

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# Features and Applications

## 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.



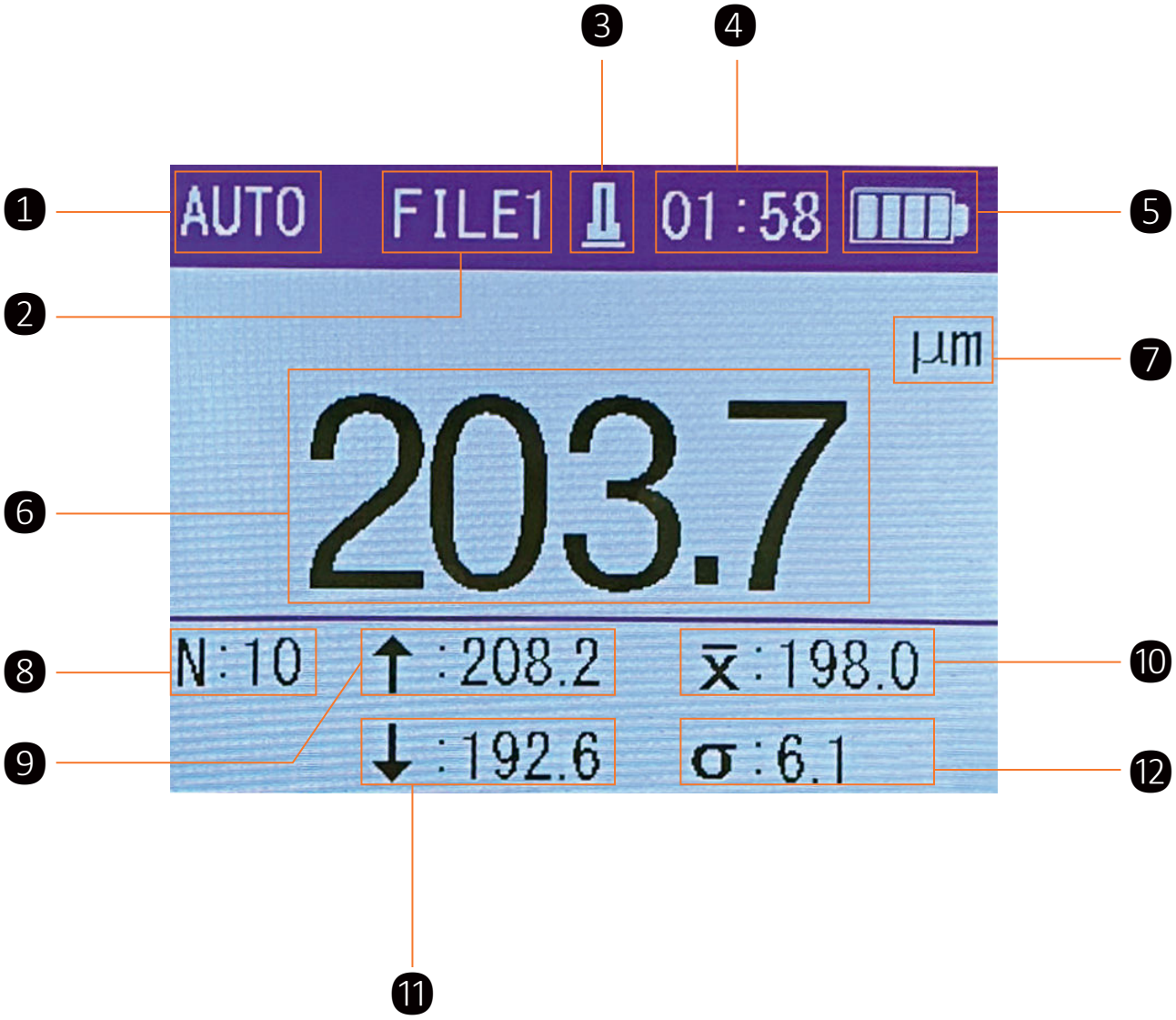
## Product Applications

- 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

# Instrument Appearance


**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**

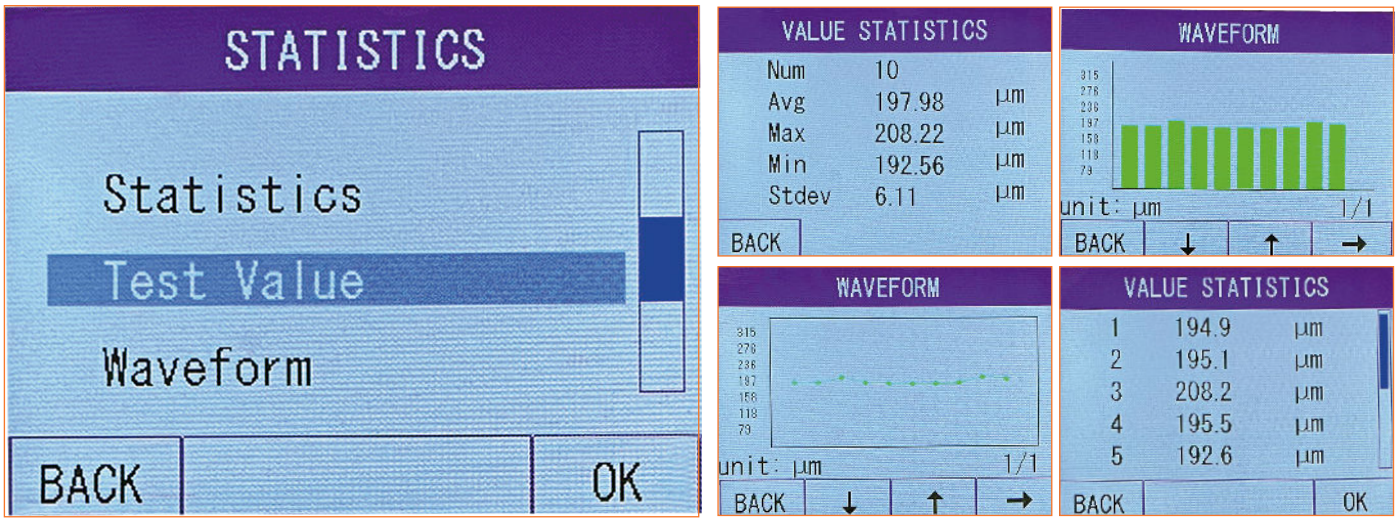
# Interface Display




**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**

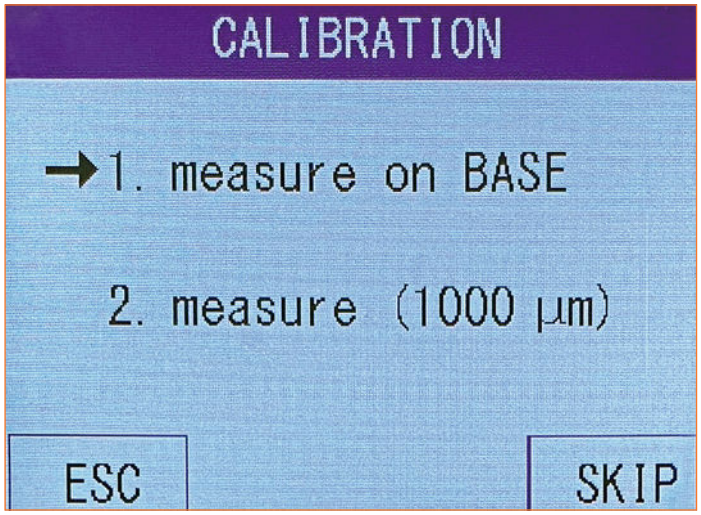
# Operation Interface

## Data Statistics




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

## Calibration

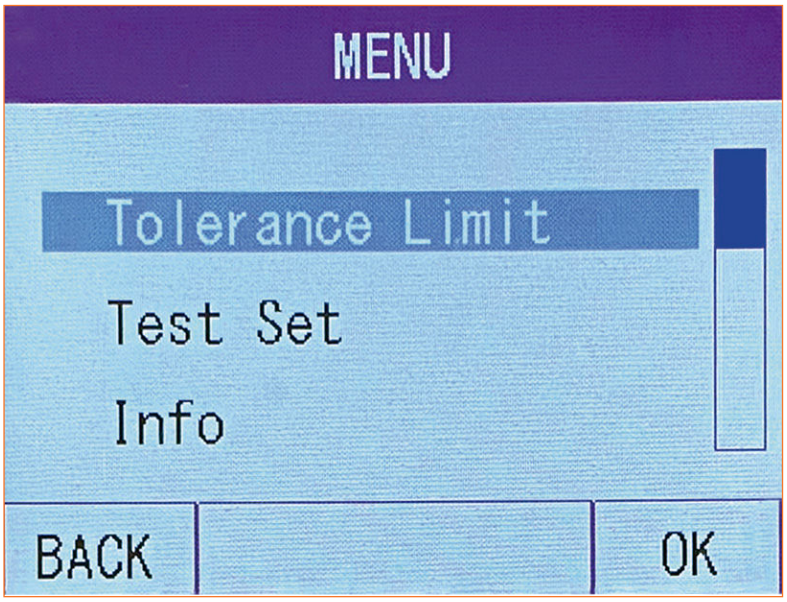


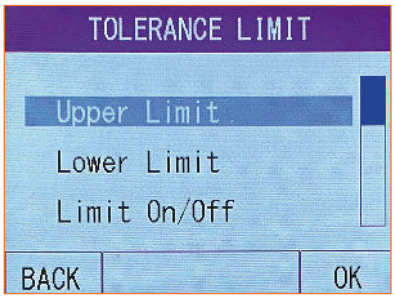

- This instrument provides two calibration methods used in measurement: zero point calibration and two-point calibration; Users can choose zero point calibration or two-point calibration according to their needs;

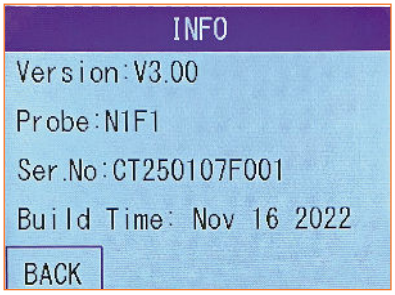
# Operation Interface

## Menu Interface

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



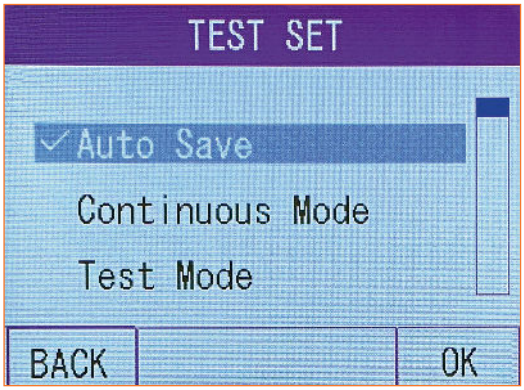




- Users can set upper and lower limit alarm functions and alarm function switches to facilitate quick detection of whether the tested product is qualified;
- Users can view product information on this interface, including instrument version, probe type, serial number, etc;

## Auto Save

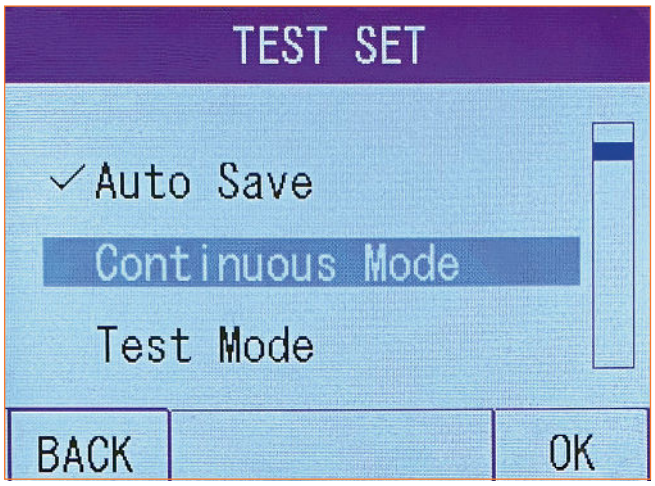
- The Test Set includes: "Auto Save ", "Continuous Mode", "Test Mode", "Sound Signal", "Display Accuracy", "Units", "Time Set", "Group Mode", "Language", " Auto Power Off";




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

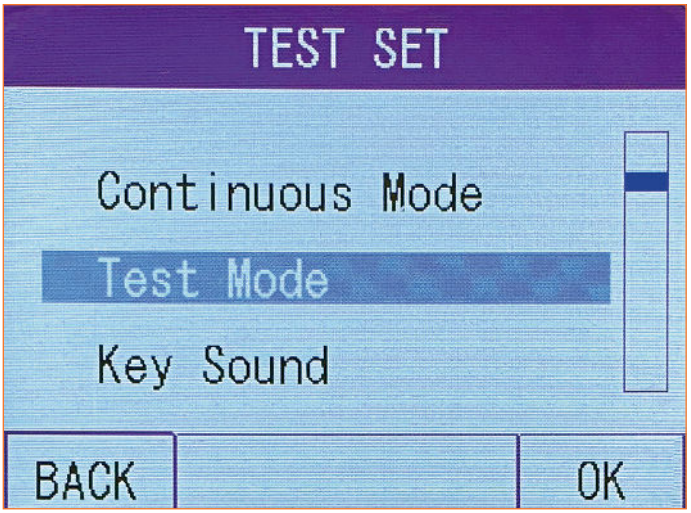
# Operation Interface

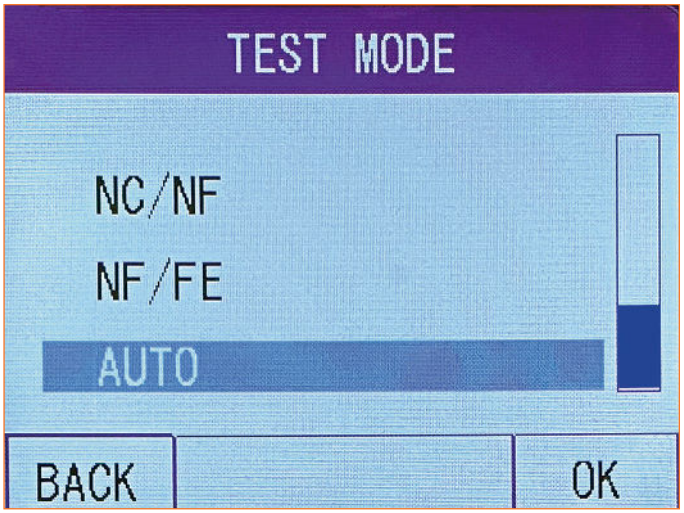
## Continuous Mode




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

## Test Mode

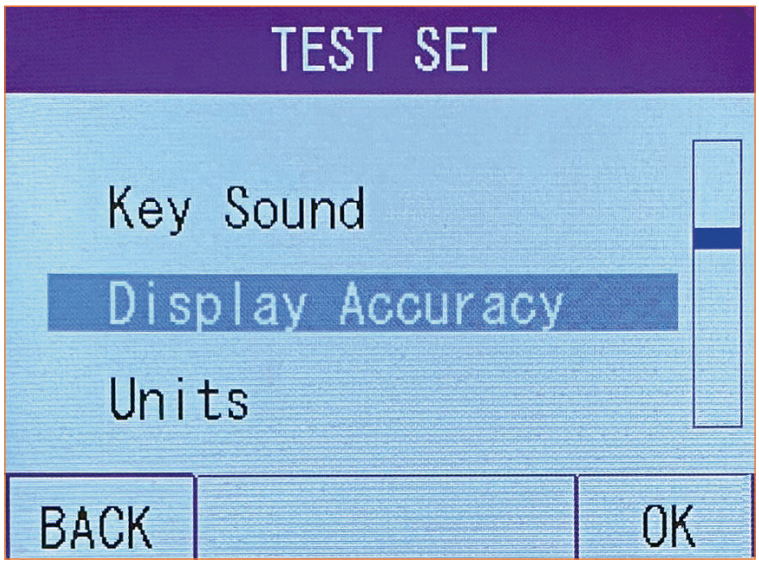


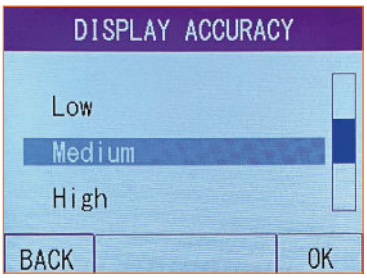



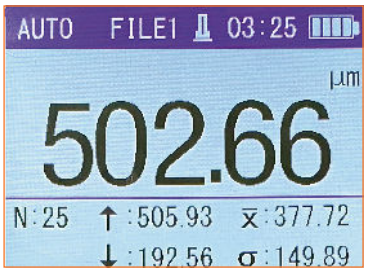

- The measurement mode can be switched to Eddy Current, Magnetic Induction, or Dual-Use.

# Operation Interface

## Display Accuracy

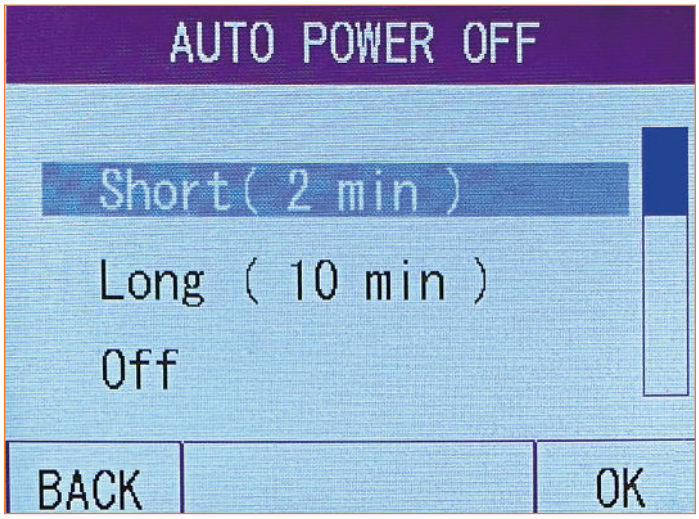


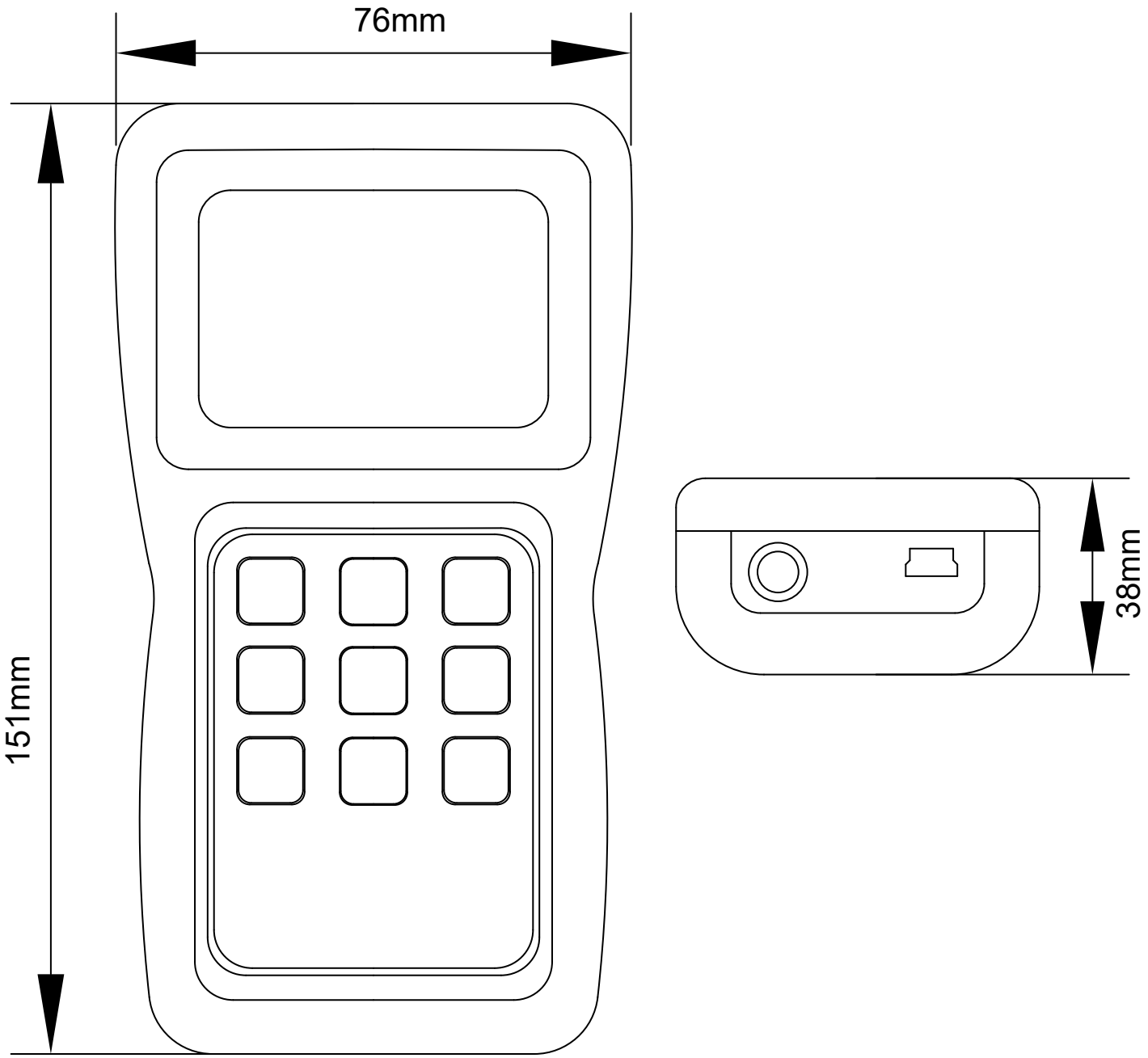

- Measurement accuracy includes: low, medium, and high; Users can choose the appropriate measurement accuracy according to their needs;

## Auto Power Off




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

# Instrument Dimension



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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(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 Condi-tions** | **Minimum Radius Of Curvature** | Convex 3mm | |
| | **Minimum Area Diameter** | Φ7mm | |
| | **Matrix Critical Thickness** | 0.5mm | 0.3mm |
| **Using Environment** | | Temperature: 0 °C~40 °C<br>Humidity: 20% Rh~90% Rh<br>No Strong Magnetic Field Environment | |
| **Power** | | 2*AA Alkaline batteries | |
| **Weight** | | About 240g | |
| **Dimensions** | | 151×76×38mm | |

# Standard Delivery

| Name | Qty | Photo |
|---|---|---|
| Machine Mainframe | 1unit |  |
| Iron Substrate | 1pc |  |
| Aluminum Substrate | 1pc |  |
| Calibration Block | 5pcs |  |
| Documents | 1set | / |
| No.5 Alkaline Battery (1.5V) | 1set |  |
| Instrument Case | 1case | / |