

Mikrosize®

iThick-700 Ultrasonic Thickness Gauge



Video



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Product Features and Application

Product Features

- Equipped with a high-frequency single-crystal probe, it can achieve ultra-thin component measurement functionality;
- Utilizes "echo-echo" ultrasonic thickness measurement technology to achieve thickness measurement through coatings;
- Display resolution is 0.001mm, with a measuring range of 0.15~20mm;
- The LCD display has adjustable contrast, featuring a 128*64 dot matrix LCD screen with LED backlighting for use in various lighting conditions;
- USB interface allows for data transfer to a computer;
- Upper computer software is available for convenient data reading.

Application

- Can be used to measure the thickness of metal sheets, pipes, bars, etc.;
- For thickness measurement of castings, due to their characteristics of coarse grains and non-dense structure, this thickness gauge can effectively measure casting thickness by using a low-frequency probe, specific coupling agent, and appropriate calibration methods;
- Used to measure the wall thickness of various pipelines (such as oil, chemical, and natural gas pipelines);
- Measures the thickness of pressure vessel shells.

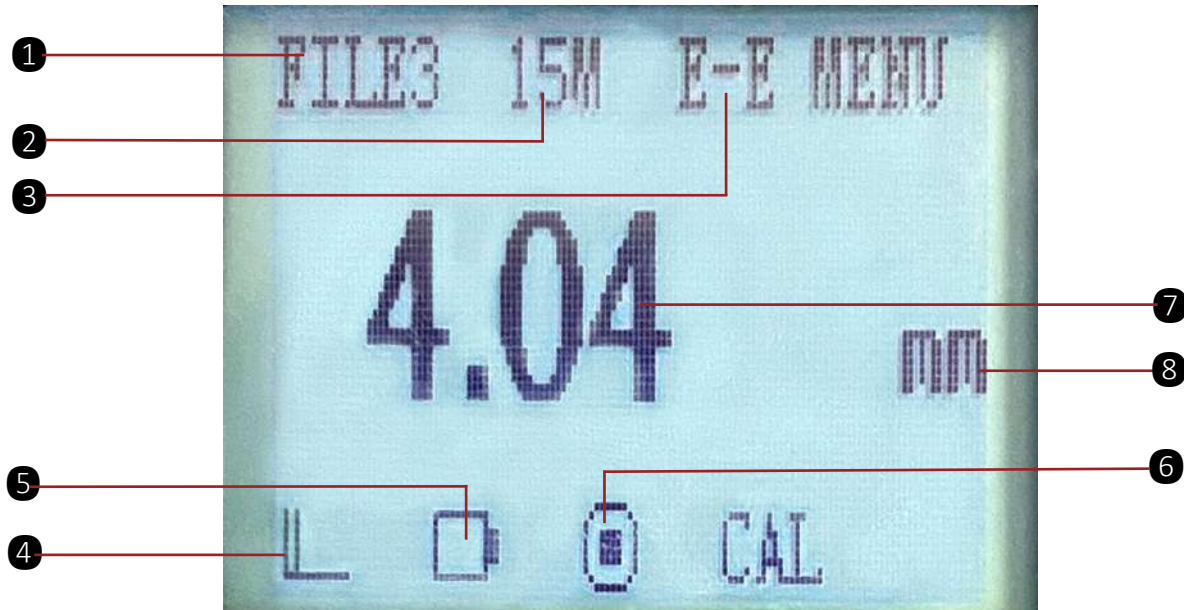


Instrument Interface



**1. Power Switch 2. Menu 3. Calibration Button 4. Confirm Button 5. Sound Velocity
6. Storage Button 7. Backlight Button 8. Up Arrow Button 9. Down Arrow Button
10. Reference Block**

Interface Display



1. Current File Number

2. Probe Type: Selectable as 15MHz, 20MHz

3. Measurement Mode: Selectable as I-E, E-E, AUTO (three modes)

4. Coupling Indicator

5. Battery Level Indicator

6. Probe Type Indicator

7. Measurement Value

8. Unit

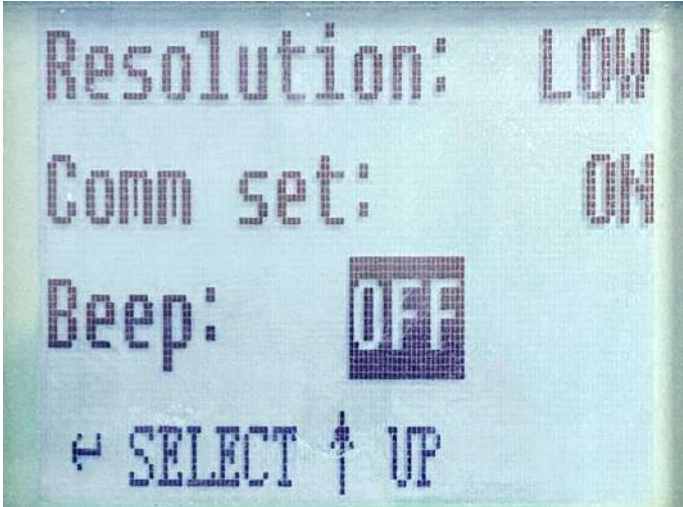
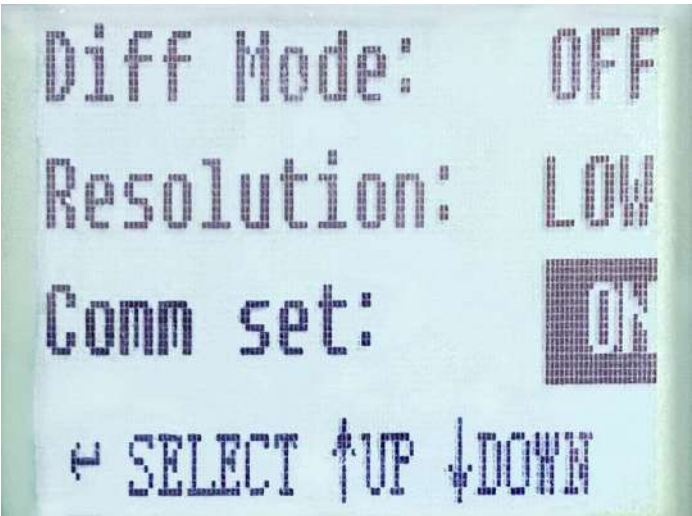
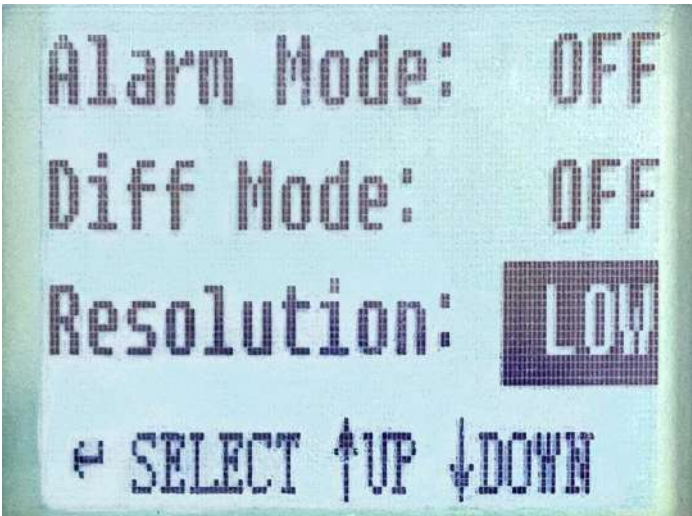
System Setting



Language Settings: Supports Chinese, English, and Spanish display;
Units: Supports both metric and imperial measurement units;

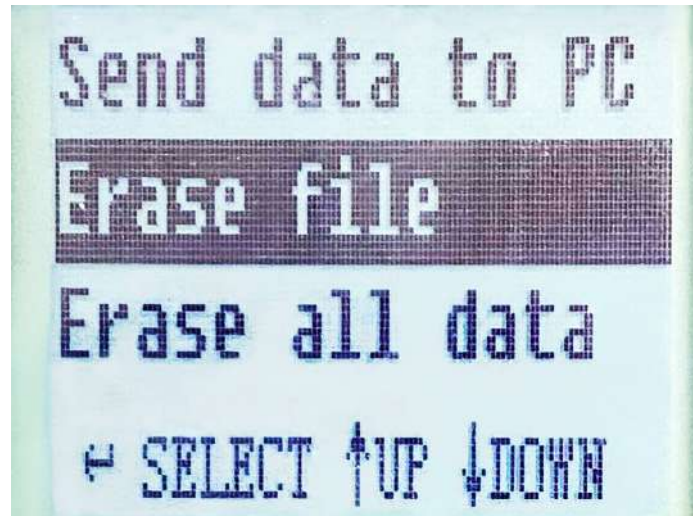


Alarm Function: This thickness gauge features an alarm function for measurement values beyond limits. When the measurement value falls below the lower alarm limit or exceeds the upper alarm limit, the buzzer will sound.
Difference Mode: It directly displays the difference between the actual measured thickness value and the nominal thickness value, visually reflecting the degree of deviation of the measurement result from the preset value.

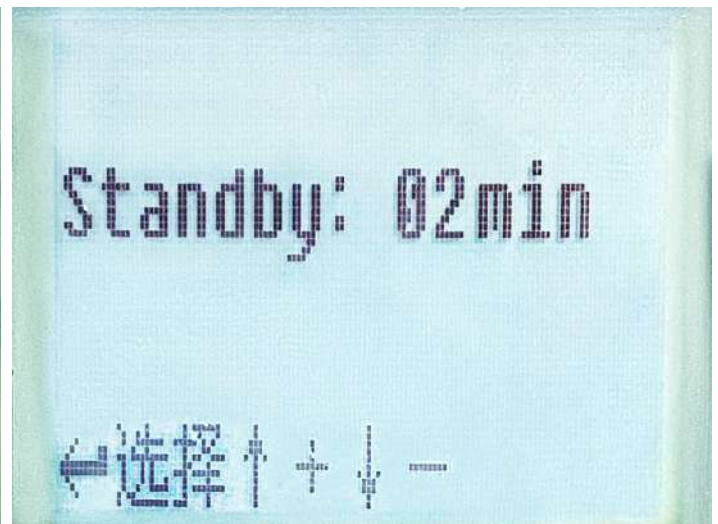
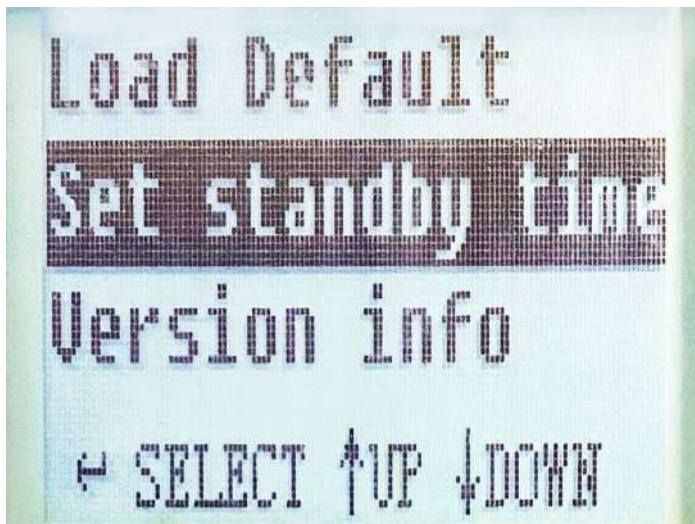


Set Resolution (Low, Medium, High)
Serial Port On/Off, Connect to Host Computer
Buzzer On/Off

Function Setting



Data Processing: Users can send measurement data to the computer or view/delete data;



Users can set a standby time, and the device will automatically shut down when the time is reached. If set to 0, it will not shut down automatically.



Technical Parameters

Measuring range	0.15~20mm
Velocity Range	(1000~9999) m/s
Measurement Mode	EE/IE
Be Able to Pass Through the Coatings	IE mode can pass through 1mm coating
Measuring Accuracy	$H < 10\text{mm} \pm 0.005\text{mm}$
Storage Capacity	$H \geq 10\text{mm} \pm (0.005\text{mm} + H/100) \text{ mm}$
Measurable Materials	500 sets of data
Display Screen Size	Steel, iron, glass, plastic, aluminum, etc
Measurement Units	2.4 "FSTN, LED backlight
Language	Metric/Imperial
Power Supply	Chinese/English/Spanish
Net Weight	2*1.5V dry battery
Dimensions of the Host	220g
Working Temperature	151*76*33mm
Working Humidity	0~50°C
	<90%



Standard Delivery

Item	Qty
Main Unit	1 pc
Probe	15M single crystal probe 1 pc
Coupling Agent	1 bottle
Documents	1 set
Instrument Case	1 pc

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