Mikrosize®

iThick-E20
Electromagnetic Ultrasonic Thickness Gauge

Contact us

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Product Feature

Product Features

- Small size and easy to carry
- The requirements for the workpiece surface are not high, and there is no need to polish the rough surface, which can realize non-contact measurement
- It is insensitive to the coating and can realize the thickness measurement of coated workpiece
- Without acoustic coupling agent, it can realize the thickness measurement of high-temperature workpiece

Technical Parameters

Sampling	100MSPS
Bandwidth	1~10 MHz
Gain	96dB, with a step of 1dB
Transmit Voltage	±600V, non-adjustable
Transmit Pulse Width	25~300 ns, with a step of 5ns
Transmit Frequency	100~1000 Hz, with a step of 100Hz
Measurement Accuracy	±0.01 mm
Range of Sound Velocity	400~9999 m/s
Effective Measuring Range	1.0~2000 mm
Average Level	Low, Medium, High
Lift-off Distance	6mm (Aluminum), 5mm (Carbon Steel), 4mm (Stainless Steel)
Measurement Range	(for Carbon Steel) 1X: 125mm, 2X: 500mm, 3X: 2000mm
Measurement Type	Metallic materials such as Aluminum, Copper, Iron, Carbon Steel, Cast Steel, Alloy Steel, Stainless Steel, Titanium Alloy, etc.
Measurement Channel	Thin Material, Standard, Thick Material
View Mode	Normal, Difference, Max/Min Capture
Measurement Mode	Single Echo (I-E), Dual Echo (E-E)
Search Mode	Leading Edge-Leading Edge, Peak-Peak, Peak-Leading Edge
Rectification Mode	RF, Inverted RF, Full Wave, Envelope, Negative Half Wave, Positive Half Wave
Data Storage	Can save 520 files, each file can record 252 sets of thickness values, totaling 130,000 sets
Auxiliary Functions	Automatic Freeze, Automatic Gain, Automatic Sleep, A-Scan, Thickness B-Scan, Digital Filtering, Automatic Range, Waveform Fill, Waveform Shift, Suppression Adjustment, Backlight Adjustment, Buzzer
Correction Function	Gate Adjustment, Blanking Adjustment, Gain Adjustment, Sound Velocity Calibration, Zero Calibration, High Temperature Compensation
Unit	Metric, Imperial
Language	Simplified Chinese, English
Communication	Full-speed USB 2.0
Charger	5V2A, Standard MINI-USB Connector
Display Screen	HD 2.4-inch 320×240 IPS LCD
Probe Interface	LEMO-0B 2P
Weight	250g, excluding battery
Body Dimensions	153mm × 76mm × 37mm
Battery Life	Two 3.7V 1000mAh lithium-ion batteries, up to 5 hours of continuous use

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	Name	Qty	
Standard Delivery	Main Unit	1 PC	
	Room Temperature Probe	1 PC	4MHz, Φ30mm*40mm
	Charging Data Cable	1 PC	
	Charging Plug	1 PC	
	Instruction Manual	1 Copy	
	Iron-based Test Block	1 PC	
	Aluminum-based Test Block	1 PC	
	Instrument Case	1 PC	
Optional Delivery	High-temperature Probe	1 PC	4MHz, Φ42mm*57mm
	Room Temperature Probe for Small Diameter Pipes	1 PC	4MHz, Φ13mm*36mm
	Room Temperature Probe for Large Diameter Pipes	1 PC	4MHz, Φ40mm*60mm

High-temperature Probe	
Room Temperature Probe for Small Diameter Pipes	
Room Temperature Probe for Large Diameter Pipes	

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