

Mikrosize®

eThick-2000

Electromagnetic Ultrasonic Thickness Gauge



Contact us

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Feature and Application

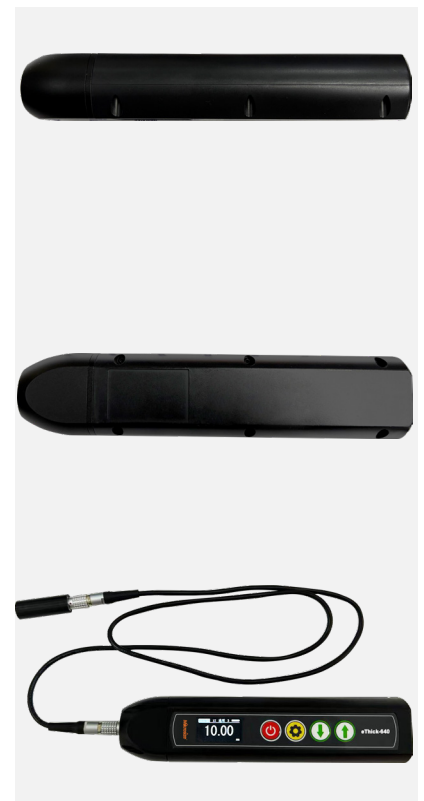
The eThick-2000 Electromagnetic Ultrasonic Thickness Gauge is a super - compact instrument that requires no couplant and enables non - contact measurement. It can measure the thickness of metallic substances at normal and high temperatures. It supports the use of high - temperature probes and small - aperture probes to meet different measurement requirements, and is applicable to titanium, aluminum, copper, stainless steel, alloy steel, carbon steel, cast steel, etc.

Product Feature

- Supports A-scan thickness measurement, capable of measuring ultra-thick workpieces.
- Ergonomically optimized design, compact structure, ultra - small size, easy to carry, and comfortable to hold.
- High-precision thickness measurement, coating-penetrable, no couplant required, no need to polish workpiece surfaces; compatible with surfaces coated with paint, cladding, or with unevenness
- Pre-stored sound velocities for various materials inside the instrument, supporting dynamic addition and deletion of material sound velocities; sound velocity calibration is equipped with temperature compensation to improve measurement accuracy.
- High-definition LCD color screen, adaptable to measuring environments with different light conditions.

Product Application

- Petrochemical industry: High-temperature pipeline inspection, non-contact thickness measurement without couplant, suitable for 800°C high-temperature working conditions and coated pipe walls.
- Shipbuilding: Thickness detection of hull steel plates, no polishing for rough surfaces, fast batch measurement of large-area plates.
- Power industry: Thickness measurement of boilers and pressure vessels, stable measurement in high-temperature environments to ensure safe operation of pressure equipment
- Rail transit: Inspection of steel rails and vehicle metal parts, portable all-in-one design for fast and accurate on-site thickness data acquisition.
- Machinery manufacturing: Thickness measurement of castings and forgings, compatible with various metal materials, meeting measurement needs of both thin parts and thick plates.
- Steel structure construction: Thickness verification of building components, non-contact measurement without damaging workpieces, improving inspection efficiency.



Product Details



1. LCD Color Screen

2. Indicator Light

3. Switch Key

4. Set Key

5. Up Key

6. Down Key

7. Safety lanyard



Technical Specification

Sampling	80MSPS
Bandwidth	2.5MHz~6MHz
Transmit	±600V_400Hz_125ns
Gain	Automatic 0 - 96 dB, step interval 1 dB
Measurement Accuracy	±0.01mm
Sound Speed Range	400~9999 m/s
Effective Range	0.25~2000mm
Averaging Level	Three adjustable levels: L, M, H
Lift-off Distance	0-7mm
Measurement Materials	Metallic materials like aluminum, copper, iron, carbon steel, cast steel, alloy steel, stainless steel and titanium alloy
Measurement Mode	Single echo (I-E), Double echo (E-E)
Auxiliary Functions	Auto Freeze, Auto Gain, Auto Sleep, Metric - Imperial Switch, Sound Speed Saving, Backlight Adjustment
Correction Function	Sound Speed Calibration, Zero - point Calibration, High - temperature Compensation
Communication	RS-485 or USB 2.0
Charger	5V 2A, standard Type-C interface
Display Screen	1.47-inch 320×172 IPS LCD
Dimension	178.4mm*42mm*32mm
Battery Life	3.7 V 3400 mAh lithium battery, 6 hours of endurance
Net Weight	Metal housing: 358 g; Injection-molded housing: 255 g; Injection-molded + quick release: 289 g

Standard Delivery

Name	Qty	Photo
Main Unit	1pc	
USB Charger	1pc	
Charging Cable	1pc	
Test Block (Iron)	1pc	
Test Block (Aluminum)	1pc	
Instrument Case	1pc	
Certificate of Conformity	1copy	
Instruction Manual	1copy	

Optional Delivery

Name	Remark	Photo
Small-bore Probe	4MHz, Φ 13mm*36mm	
Large-bore Probe	4MHz, Φ 40mm*60mm	
High-temperature Probe	4MHz, Φ 33mm*40mm	

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