

eThick-240

Electromagnetic Ultrasonic Thickness Gauge



Contact us

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Feature and Application

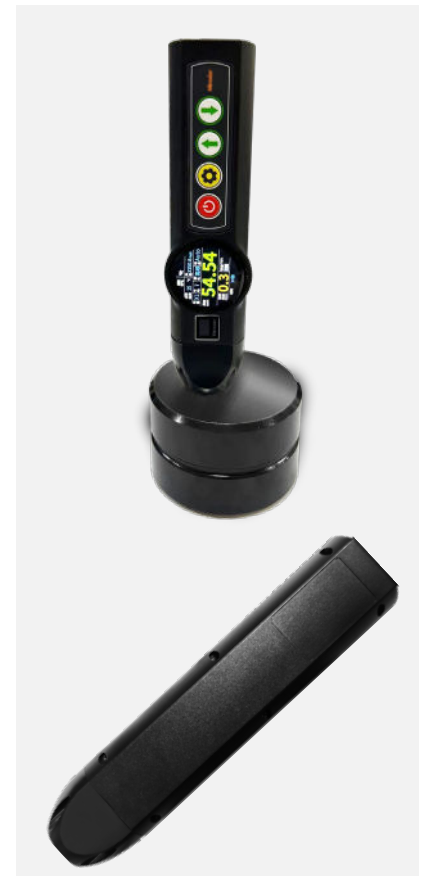
The eThick - 240 electromagnetic ultrasonic thickness gauge is a pen - type ultra - compact, coupling - agent - free, non - contact thickness - measuring instrument. It can measure the thickness of metals or ferromagnetic materials, and simultaneously measure the thickness of coatings on magnetic workpieces. When the instrument is attached to the workpiece, it can measure the vibration of the workpiece. It is a multi - functional pen - type electromagnetic ultrasonic thickness gauge integrating thickness detection, coating thickness detection and vibration measurement.

Product Feature

- Supports A - scan Thickness Measurement.
- Electromagnetic Ultrasonic Thickness Measurement, Coating Thickness Measurement and Vibration Analysis Integrated;
- No Acoustic Coupling Agent Needed, Can Achieve Thickness Measurement of High - temperature Workpieces, and Temperature Compensation Can Be Conducted;
- Insensitive to coatings, can achieve thickness measurement of coated workpieces;
- 1.3 - inch high - definition IPS circular LCD screen display, 360° full - viewing angle;
- Equipped with upper - computer software, which facilitates the reading of various data and enables the B - scan function on the upper - computer;

Product Application

- Inspection of high - temperature pipelines in petrochemical industry. Non - contact thickness measurement without the need for coupling agent, adaptable to high - temperature working conditions of 800°C and pipeline walls with coatings.
- Thickness detection of hull steel plates in shipbuilding. No need to polish rough surfaces, enabling rapid batch measurement of large - area plates.
- Thickness measurement of boilers and pressure vessels in the power industry. Stable measurement in high - temperature environments to ensure the safe operation of pressure - bearing equipment.
- Inspection of railway rails and vehicle metal parts in rail transit. the portable all - in - one design enables quick and accurate acquisition of thickness data on-site.
- Thickness measurement of castings and forgings in machinery manufacturing. It is suitable for various metal materials, meeting the measurement requirements of both thin parts and thick plates.
- Verification of the thickness of steel - structure building components. Non - contact measurement does not damage the workpieces and improves the efficiency of engineering inspection.



Product Details



1.LCD Color Screen

2.Indicator Light

3.Switch Key

4.Set Key

5.Up Key

6.Down Key

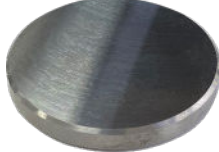
7.Safety lanyard

8.Vibration Value Screen

Technical Specification

Effective Range	1-240.0mm
Lift - off Distance	0-5.5mm
Detectable Workpiece Materials	Conductor materials such as carbon steel, cast steel, alloy steel, stainless steel, copper, aluminum, titanium, etc.
Error Range of Measuring Equipment	Workpiece Thickness<10mm, error 0.05mm Workpiece Thickness>10mm, error $+(0.01+H/200)$ mm (H represents the value of the workpiece thickness)
Receiving Gain	≤ 100 dB
Maximum Measurement Range of Coating	6mm
Vibration Measurement Range	0-156m/s ²
Maximum Tilt Angle of the Probe	$\pm 25^{\circ}$
Minimum Diameter (Curvature) of Detectable Workpieces	6mm
Probe Magnetization Method	Permanent Magnet
Acoustic Wave Type	Shear Wave (Transverse Wave)
Waveform Display	Positive Half - wave, Negative Half - wave, Full Wave, Radio Frequency Wave, Envelope Wave
Adjustment Range of Acoustic Wave Velocity	1000-9999 m/s
High - temperature Compensation	It has the function of automatic high - temperature acoustic velocity compensation.
power supply	Equipped with a Built - in Lithium - battery, and the Working Time is Not Less than 4 Hours.
Low - power Consumption Mode	Supports Gecko™ Mode, and Standby Time Can Reach Over 20 Hours.
Operating Temperature Range	-10~50°C
Storage Temperature Range	0-40°C
Weight	250g (with normal - temperature probe)
Dimension	L*W*T:170*40*35mm

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
Industrial Pad	Supports Android, HarmonyOS	
Mobile Phone	Supports Android, HarmonyOS	
Wrist Watch	Supports Android, HarmonyOS	
Small-bore Probe	4MHz, $\Phi 13\text{mm} \times 36\text{mm}$	
Large-bore Probe	4MHz, $\Phi 40\text{mm} \times 60\text{mm}$	
High-temperature Probe	4MHz, $\Phi 33\text{mm} \times 40\text{mm}$	