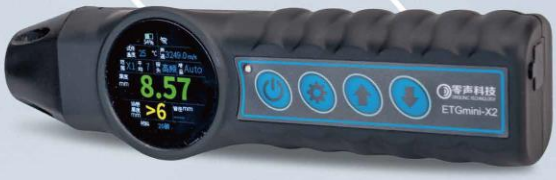
零声科技 ORISONIC TECHNOLOGY

SONEMAT

ORIETG–X2

Pen-Type Electromagnetic Acoustic and Eddy Current Composite Thickness Gauge



A state-of-the-art EMAT thickness gauge that integrates eddy current technology for coating thickness measurement. It is a non-contact thickness gauge that does not require couplant or surface grinding, capable of measuring high temperature conductive materials.

Couplant-free EMAT Technology
Eliminates surface preparation and grinding requirements

Dual Measurement Capability
Simultaneous wall thickness (up to 200 mm) and coating thickness (up to 5 mm)

Percision Measurement
0.01 mm for conductive material thickness measurement
0.1mm for coating thickness measurement

High-Temperature Operation
Withstands up to 800°C

Inteligent Workflow Solution
NFC/QR code tagging for automated data: Cloud sync & AI-powered Analysis & Customizable Detection Templates

Portable Field Solution
Compact 260g handheld size

Accessories:

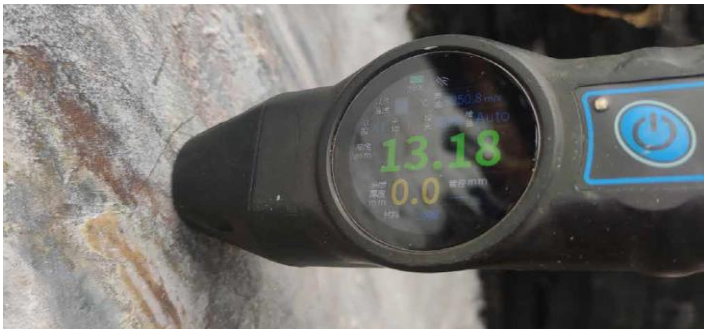
A variety of probes

Smart tablets

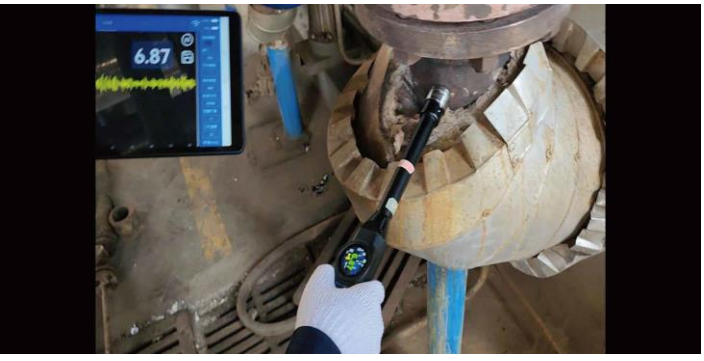
Performance Parameters:

Functions	Wall thickness measurement + coating thickness measurement
Detectable Materials	Conductive materials such as carbon steel, cast steel, alloy steel, copper, aluminium, titanium etc.
Measurement Range	1.0 to 200.0 mm, larger ranges can be customised
Measurement Accuracy for Wall Thickness	0.01mm
Measurement Accuracy for Coating Thickness	0.1mm
Normal Temperature Probe Specification	≤ 150 ^{0}C, 4MHz, can simultaneously achieve wall thickness and coating thickness measurement
High Temperature Probe Specification	≤ 800 ^{0}C, 4MHz (short-term measurement)
Maximum Operating Standoff	5mm
Minimum Diameter for Pipe Measurements	8mm
Maximum Probe Tilting Angle	+25^0
High Temperature Compensation	Equipped with automatic high temperature sound speed compensation function
Power Supply	Built-in lithium battery with ≥8 h runtime (standard mode, smart terminal disconnected)
Operating Temperature of System	-20 to +50^{0}C
System Weight	260 g (with normal temperature probe)

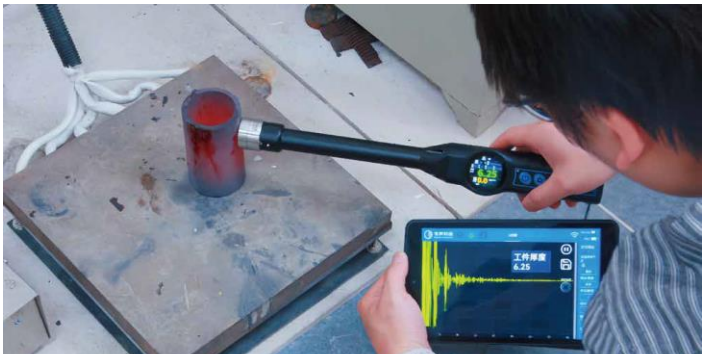
Reactor feed-line for a cracking system



Refrigerant lines for polysilicon plants



Vacuum pump outlet elbow



High-temperature pipes

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