EMA1000

EMAT Thickness Gauge

Electromagnetic ultrasonic high-temperature thickness gauge





Product introduction

EMA1000 electromagnetic ultrasonic thickness gauge is specially developed for measuring steel pipes, rolled plates, bars and other products made of steel, aluminum and other metals. No pre-cleaning of surfaces or coupling agents are required for operation. 4 mm coatings are permeable. The device can also measure the thickness of coatings on metals.







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EMA1000 EMAT Thickness Gauge

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Technical parameters

Measuring range of metal thickness:

Accuracy:

Measurement error:

The maximum lift-off between the sensor and the detected object is:

The thickness measurement range of non-conductive coating is:

The measurement error of non-conductive coating thickness is:

Angle of deflection of the sensor relative to the surface of the detected object:

Detecting the minimum curvature radius of the object surface:

The number of measurements per second is:

Acoustic speed:

Storage:

Frequency

Continuous running time without charging:

Working environment temperature range:

Using room temperature sensor to detect the surface temperature of the object:

Using high temperature sensor to detect the surface temperature of object:

Language:

1~250mm
0.01mm

≤0.08mm

4mm

0~12mm

0.1 mm±3%

±25°

≥8mm

16times

1000-9999m/s, Steps of 1m/s

50000 results

4MHz

>7h

-20~+50°C

-20~+80°C

-20~+800°C

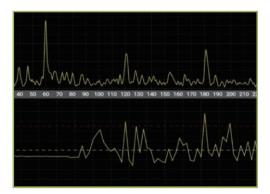
Chinese/English

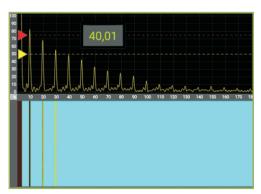
Software Introduction

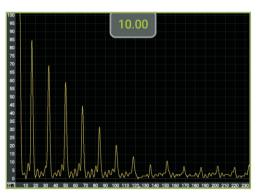
A Scan

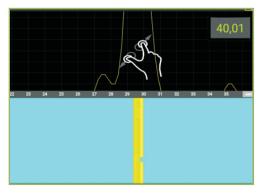
Scan











AI163

Acoustic Fault Locator





Product Introduction

Partial discharges in electrical installations and gas leaks in pipes will excite the air to produce sound or ultrasound. Al163 acoustic fault locator can locate ultrasonic source remotely and without contact, so as to locate the position where the electric power facility generates partial discharge, the pipeline has gas leakage and the like.

Technical Parameters

Sound imaging:	sound visualization, large-scale one-time discovery of problem points	
PRPD diagram:	signal mapping, intuitive and effective identification of partial discharge characteristics	
Partial discharge type:	intelligent classification, easy and efficient completion of inspection work	
Photographing/video recording:	taking acoustic imaging pictures or recording acoustic imaging videos	
Working mode:	single sound source, multiple sound sources and sensitive multi-mode switching	
Regional focusing:	eliminate the interference outside the region and improve the positioning accuracy	
Number of microphones:	163	
Microphone type:	Digital MEMS	
Microphone sensitivity:	-26 dBFS (1 kHz, 94 dB SPL)	
Microphone SNR:	64.3 dB(A)	
Sound sampling rate:	200 kS/s/ch synchronous sampling	
Frequency range:	2kHz-100kHz	
Acoustic refresh rate:	25FPS real-time refresh	
Test distance:	The farthest distance is 0.3-130m related to the sound source size	

Online M1

EMAT Pipeline Online Monitoring System





Product Introduction

Online M1 electromagnetic ultrasonic online corrosion monitoring system is a non-immersion monitoring system. Due to the use of electromagnetic ultrasonic nondestructive testing method, the probe and the metal part are allowed to be lifted off by 3mm~4mm during measurement, so it is not necessary to clean the testing object and there is no damage to the testing object itself. In addition, the system can also monitor the thickness change of the coating at the same time, so as to help users better judge the corrosion situation and remaining service life of the testing object.

Technical Parameters

Measurement range:	1~250mm
Measurement display accuracy:	0. 01mm
Measuring radius range:	8mm
Number of channels:	Single 1-4 channels optional
Communication transmission mode:	LoRaWAN
Power supply:	lithium battery power supply
Duration of charging once:	2-3 years
Temperature range of probe:	-20~300℃
Working environment temperature:	-20~80℃
Probe fixing method:	glue or clamp