

MIDLAND METROLOGY LTD

iThick E20 Electromagnetic Ultrasonic Thickness Gauge



Description

- Three measurement mode: P E I E and TEST. These are adopted to accurately measure the thickness.
- I E mode enable the gauge to measure thickness through coatings.
- High precision timing chip and v path calibration model are adopted with wide measurement range and high measurement accuracy.
- Information can be stored including thickness measurement value, measured sound velocity and time information.
- The display resolution is 0.1mm/0.01mm and the error limit is 0.4% H. H is the thickness of the workpiece.
- The contrast of the liquid crystal display is adjustable and has LED backlight display.
- Power indication function displaying the remaining power of the battery.

Technical Specification

Measurement Range	1.5-240mm
Velocity Range	(1000-9999)m/s
Lift Off Distance	4.5mm
Receiving Gain	≤ 100dB
Velocity Range	When the thickness of workpiece is less than 10mm. The error is 0.05mm. When the thickness is more than 10mm, the error is +(0.01 + H/200mm)mm H is the thickness of the work piece.
Measurement Speed	
The Minimum Diameter (Curvature) of the Workpiece that can be Detected	8mm
The Maximum Tilt Angle of the Probe	25°
Probe Field of Excitation	Permanent Magnet
Type of Sound Wave	Shear Wave
Power Supply	2 x 3.7V Lithium Battery. Working Time Not Less Than 2.5 Hours
Normal Temperature Probe	≤ 80° 4MHz
High Temperature Probe	≤ 800° 4MHz
Weight	220g
Dimensions	151 x 76 x 37mm

Packing List

	Name	Qty.
	Host	1
Standard	AA Battery	2
Configurations	Iron Based Test Block	1
	Aluminium Based Test Block	1
	Manual	1
	Case	1
Optional	High Temperature Probe	1
Configurations	Small Diameter Temp. Probe	1
	Large Diameter Temp. Probe	1

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