

MEASUREMENT THROUGH COATING
AND RUST LAYER

NO COUPLING
AGENT REQUIRED

NON-CONTACT
MEASUREMENT

TEMPERATURE
COMPENSATION



VIDEO

ELECTROMAGNETIC ULTRASONIC THICKNESS GAUGE CODE EMU-S340

- No surface polishing required, can penetrate anti-corrosion coating and rust (maximum 4mm), no coupling agent required
- Normal temperature permanent magnetic probe and high temperature permanent magnetic probe are using weak permanent magnet, to replace the strong permanent magnet commonly used nowadays. Completely solve the problem that EMAT transducer suction force is too large and difficult to move, so that the manual inspection is more simple, convenient and safe
- Temperature compensation function, can input the actual temperature of high-temperature components to automatically compensate the speed of sound, making the thickness measurement value more accurate
- Measurement of non verticality up to $\pm 25^\circ$, low verticality requirements for probe placement
- Scanning mode: A-scan format, B-scan image format display of thickness measurement values
- 50000 thickness values and 4000 A-scan or B-scan data can be stored
- Integrated high-brightness LEDs on the back for easy on-site illumination



SPECIFICATION

Measuring range	1.5~200mm
Resolution	0.02mm
Accuracy*	$\pm 0.04\text{mm} + H/1000$ ($H \leq 50\text{mm}$) $\pm 0.2\text{mm}$ ($50 < H \leq 100\text{mm}$) $\pm 0.3\text{mm}$ ($100 < H \leq 200\text{mm}$)
Working gap (the distance between the probe and the measured object)	normal temperature permanent magnetic probes $\leq 4\text{mm}$ high temperature permanent magnetic probes $\leq 2\text{mm}$
Minimum required diameter	$\geq 8\text{mm}$
Non-perpendicularity	$\pm 25^\circ$
Excitation frequency	3.0MHz~3.9MHz
Material velocity	1000~9999m/s
Adjustment increments	1m/s
Gate function	automatic gate, manual single gate, manual double gate
Display	color LCD, 3.5 inch/320×480 pixel
Interface	USB2.0
Power supply	rechargeable lithium battery, working time ≥ 8 hours
Dimensions	195×90×40mm
Net weight	820g

* On C45 carbon steel



normal temperature permanent magnetic probe sweep support
EMU-S52 (optional)



high temperature permanent magnetic probe
EMU-S51 (optional)

STANDARD DELIVERY

Main unit	1 pc
Transducer EMU-S50	1 pc
Calibration block (diameter $\varnothing 36 \times$ wall thickness 10mm)	1 pc
4G USB flash disk	1 pc
USB cable	1 pc

OPTIONAL ACCESSORY

High temperature permanent magnetic probe	EMU-S51
Normal temperature permanent magnetic probe sweep support	EMU-S52

SPECIFICATION OF TRANSDUCERS

Code	Magnetism	Magnetic force	Diameter ($\varnothing d$)	Applicable temperature	Application
EMU-S50 (included)	weak permanent magnet	$\leq 15\text{N}$	$\varnothing 30\text{mm}$	$-10 \sim 60^\circ\text{C}$	general use
EMU-S51 (optional)	weak permanent magnet	$\leq 20\text{N}$	$\varnothing 45\text{mm}$	$-50 \sim 800^\circ\text{C}$	for high temperature