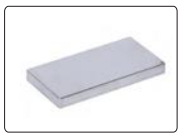
# PEN TYPE ELECTROMAGNETIC ULTRASONIC THICKNESS GAUGES

VIDEO

COUPLING AGENT IS NOT REQUIRED | MEASUREMENT THROUGH COATING AND RUST LAYER | WORK AT MAXIMUM 600°C | WITH A AND B SCAN



high temperature probe (**optional**)



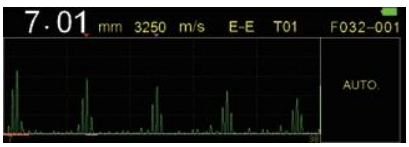
calibration block (included)



normal temperature probe (included)

**EMU-A100**

- Measurement without ultrasonic coupling agent, for workpieces with surface temperatures less than 600°C (depending on the probes)
- Compact size, easy to carry, comes with waveform display and full-function keyboard, easy to adjust the measurement parameters
- Non-contact measurement of rough, corroded surfaces without sanding
- Storage of 10000 data and 100 files
- Highly intelligent functions such as alarm for exceeding upper and lower limits, automatic zero calibration, automatic identification of probes, etc.
- Automatic power off
- Suitable for inspection of workpieces of various shapes, such as pipes, small tubes, elbows, etc.




A-Scan




B-Scan

## SPECIFICATION

| Code | EMU-A100 | EMU-B100 |
|---|---|---|
| Data output | USB | USB, Bluetooth |
| Measuring range | refer to the specification of probes | |
| Resolution | 0.01mm | |
| Accuracy* | ±0.05mm (H<10mm)<br>±(0.01+H/200)mm (10≤H<100mm)<br>±(0.1+H/100)mm (H≥100mm)<br>H is measuring thickness in mm | |
| Working gap (the distance between the probe and the measured object) | ≤1mm | |
| Gain | automatic and manual gain | |
| Material velocity | 1000~9999 m/s | |
| Measurement frequency | 2 times/second 10 times/second fast measurement mode | |
| Measuring mode | auto mode, manual mode | |
| Display | LED, 800×268 | |
| Storage | 10000 data stored in 100 files | |
| Power supply | 5V rechargeable lithium battery, 6 hours working time | |
| Operation temperature | -10°C~50°C | |
| Dimensions | 180×35×34mm | |
| Net weight | 300g | |

*On C45 carbon steel

## STANDARD DELIVERY

| | |
|---|---|
| Main unit | 1 pc |
| Normal temperature probe | 1 pc |
| Calibration block (8mm) | 1 pc |
| USB cable | 1 pc |

## OPTIONAL ACCESSORY

| | |
|---|---|
| High temperature probe | EMU-B100-T02 |

## SPECIFICATON OF PROBES

| Code | Magnet | Measuring range | Diameter (Ød) | Working temperature | Applications |
|---|---|---|---|---|---|
| EMU-B100-T01 (included) | permanent magnet | 1.5~150mm | Ø20mm | -10~120°C | general use, mainly used for fine crystal materials, such as mild steel, aluminum |
| EMU-B100-T02 (optional) | permanent magnet | 1.5~300mm | Ø25mm | -10~600°C | high temperature environment, mainly used for ferromagnetic fine crystal materials, such as mild steel |