

TENMARS Coating Thickness Tester

www.tenmars.com

TM-292

This meter is designed to measure the thickness of non-magnetic coatings on magnetic substrates (Fe) and insulating coatings on non-magnetic substrates (NFe).

It can automatically identify whether the substrate is magnetic or non-magnetic during measurement.

General specifications

- **LCD Display:** Max 2000 count, with white backlight.
- **Over-Range Display:** OL (Over Limit).
- **Substrate Modes:** Fe, NFe, Auto.
- **Auto Power-Off:** Selectable ON/OFF.
- **Sampling Time:** 0.5 seconds per measurement
- **Data Handling:** Automatic reading lock and storage.
- **Calibration:** Zero-point and multi-point.
- **Alarm Function:** Sound and red backlight when exceeding set limits
- **Error Message:** Displays if substrate is not Fe/NFe.
- **Memory Capacity:** 15 groups × 130 records = 1950 total.
- **Data Transfer:** Via USB with PC software support
- **PC Software Functions:** Total readings, average, max, min, standard deviation (SD).



147x65.5x33(LxWxH)mm.
About 130g (Batteries not included)

Electrical specifications

Environment Conditions for Accuracy: 23°C ± 5°C, < 80%RH, using the supplied Fe & NFe substrates.

Sensor	Fe : Electromagnetic induction NFe : Eddy current effect
Range	0~2000 μm 0~78.7 mil
Minimum measurement area	10×10mm(0.4x0.4 mil)
Minimum substrate thickness	0.4mm(0.016mil)
Accuracy	0~1000μm: ±(2% of reading +1.0μm) 0~39.3mil: ±(0.1% of reading +0.04mil) 1000μm and above: ±(5% of reading +1μm) 39.3mil and above: ±(0.2% of reading +0.1mil)
Response Rate	4 seconds
Resolution	0.1μm : (<100μm) 0.01mil:(<10.0mil) 1μm : (≥100μm) 0.1mil:(≥10.0mil)