

MarMonix MCT 801

Coating Thickness Gauge



Quick Spec Highlights

- **Measurement Range:** 0 – 1800 μm / 70.8 mil / 1.8 mm
- **Measuring error:** $\leq 150\mu\text{m}$, $\pm 5\mu\text{m}$ $> 150\mu\text{m}$, $\pm (3\%H + 1\mu\text{m})$
- **Resolution** ($0.1\mu\text{m}$ ($< 100\mu\text{m}$), $1\mu\text{m}$ ($\geq 100\mu\text{m}$)) / 0.1mil / 0.001 mm
- **Operating Temperature:** $-20\text{ }^{\circ}\text{C}$ to $40\text{ }^{\circ}\text{C}$

Key Features

- Dual-substrate measurement capability – measures non-magnetic coatings on ferrous substrates (e.g., paint on steel) and non-metallic coatings on non-ferrous substrates (e.g., anodizing on aluminum).
- Automatic substrate recognition – instantly detects whether the base material is ferrous or non-ferrous, eliminating manual mode switching.
- Flexible measurement modes – supports single, continuous, and differential measurements for different test environments.
- High-accuracy calibration – zero-point, offset, and basic calibration functions ensure long-term stability and consistent precision.
- Ergonomic and practical design – compact body ($62 \times 27 \times 121.5\text{ mm}$, 105 g) with backlit LCD for field and laboratory applications.
- Energy-efficient operation – powered by two AAA batteries with auto shut-off to conserve power.

Package Contents

- 1 \times MarMonix MCT 801 Coating Thickness Gauge
- 1 \times Protective carrying case or pouch
- 2 \times Calibration standards or substrates
- 1 \times User manual or instruction booklet
- Batteries (usually 2 \times AAA, either included or specified)

Ordering Info

- **Part Number :** 7603271
- **GTIN:** 6298043998154

Warranty

This device is covered by a 2-year warranty from the date of purchase, ensuring reliability and long-term support. The warranty applies to defects in materials and workmanship under normal use. It excludes consumables (fuses, disposable batteries) and damage caused by accident, misuse, modification, contamination, or operation outside specified conditions.

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Specifications

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Measurement ranges	0 ~ 1800μm/70.8mil/1.8mm
Resolution	(0.1μm(<100μm),1μm(≥100μm))/0.1mil/0.001mm
Measuring error	≤150μm, ±5μm >150 μm, ±(3%H+1μm)
Minimum diameter of magnetic substrate	12mm
Minimum thickness of magnetic substrate	0.5mm
Minimum curvature radius of convex magnetic substrate	2mm
Minimum curvature radius of concave magnetic substrate	11mm
Minimum diameter of non-magnetic substrate	50mm
Minimum thickness of non-magnetic substrate	0.5mm
Operating temperature range	-20~40°C(It is recommended to calibrate it again when use in different environments, especially for large temperature difference)
Operating humidity	10~95%RH
Power supply	2*1.5V AAA batteries
Overall dimensions	62*27*121.5mm
Weight	105.03g

Disclaimer

The information contained in this datasheet is believed to be accurate and reliable at the time of publication. However, MarMonix reserves the right to make changes to specifications, features, or design without prior notice. Performance specifications apply under standard laboratory conditions and may vary in different environments. This product is intended for professional use only. MarMonix shall not be liable for any incidental, consequential, or special damages arising from the use of this product.