

CMI 153 Coating Thickness Gauge

Professional

Description

F/NF Coating thickness gauge that measures non-conductive coatings over non-ferrous substrates and non-magnetic coatings over ferrous substrates.

Features

- Automatically detects Ferrous or Non-ferrous substrates and automatically selects correct test method: eddy current or magnetic induction.
- Eddy Current Technology for non-conductive over non-ferrous metals like aluminum, brass or copper: Teflon, Enamel, Epoxy, Anodize, Paint & Powder Coats.
- Magnetic Induction Technology for non-magnetic coatings over steel or ferrous substrates: Zinc, Cadmium, Paint & Powder Coats.

Specification

Automatic Substrate Recognition
No User Calibration Required
Magnetic Induction: Conforms to methods ASTM B499 & B530, DIN 50981, ISO 2178 and BS 5411 Parts 9 & 11
Eddy Current: Conforms to methods ASTM B244 & B529, DIN 50984, ISO 2360 and BS 5411 Part 3
Factory calibrated, only requires a swift base re-zero correction when measuring on different metallic substrates
Measurement Ranges:
Ferrous Substrates, Magnetic Induction: 0.001-2.04mm (0.1-80mils)
Non-ferrous substrates, Eddy Current: 0.001-1.52mm (0.1-60mils)
Minimum ferrous and non ferrous substrate thickness: 305µm, 12mils
Accuracy: +/- (2µm+3% of reading) or +/- (0.1mils+3% of reading)
Precision:
Ferrous Substrates, Magnetic Induction: $\bar{\sigma}$ = 0.8µm (0.03mils) for a 75µm (2.95 mils) plastic standard on steel
Non-Ferrous Substrates, Eddy Current: $\bar{\sigma}$ = 0.5µm (0.02mils) for a 75µm (2.95mils) plastic standards on Al
Size: 95.3 x 50.8 x 25.2mm
Weight: 71g
Units: Automatic conversion between Imperial & metric units with a keystroke
Battery: 2 x AA, Auto on/off to extend battery life



Ideal Metrology Solution for:

- Paint & Powder Coatings.
- Coating Inspectors.
- Electroplating Plants.
- Painting Contractors.
- Automotive & Aerospace Finishers.
- Ship Building.
- Industrial.

Item Code : ST-CMI153

Product Supply Includes: Includes CMI153 Gauge, Protective Case, Steel base plate & 3 mil NIST certified shim standard.