

Measuring principle

This instrument has a unique single external probe which uses the principle of electromagnetic induction to measure the thickness of non-magnetic coatings on magnetic substrates and eddy current principle to measure thickness of non-magnetic coatings on non-magnetic substrates.

Applications

The Instrument is designed for non-destructively measuring the thickness of coatings on ferrous and non-ferrous substrates. It can be used to measure thickness of paint, galvanizing layer, lacquer layer, porcelain enamel, phosphide layer, copper tile, anodizing layer, varnish, plastic coatings, powder, etc.

Features

- Unique single probe for F and nF with automatic substrate recognition.
- Zero-point calibration and multi-point calibration.
- Two measure modes: single and continuous.



Technical Specifications

Model	Metrix+ Coat Measurer F+N
International Standard	It meets the standards of both ISO 2178 and ISO 2361 as well as DIN, ASTM and BS.
Measuring principle	Magnetic induction(F) & Eddy Current(nF)
Display	4 digits backlit LCD
Measuring range	0 - 1250um (0 - 50mils)
Accuracy	±1-3%n or ±2.5um
Resolution	0.1um(0~99.9um); 1um(over 100um)
Units	um /mils
Minimum curvature radius	F : 1.5mm(convex) ; 25mm(concave) NF : 3mm(convex) ; 50mm(concave)
Minimum measuring area	Diameter 6mm
Minimum thickness of substrate	0.3mm
Additional features	Low Battery Indicator, Auto power off
Power supply	4 x 1.5V AAA battery
Operation environment	Temperature: 0 to 50°C ; Humidity: < 95%
Size & Weight	145mm × 65mm × 25mm; 145g(not including batteries)
Standard Accessories	Coating Thickness Gauge, F/nF probe, '0' calibration block, standard foils, batteries, technical manual, hard carry case.
Optional Accessories	PC interface(cable and software)