Metrix+™
Innovative Excellence

COATING THICKNESS GAUGE

COAT SCOPE 27-4k

High range

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-conductive 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 substrates with automatic substrate recognition.
- Zero-point calibration and multi-point calibration.
- Data storage and recall.
- Statistics of max, min and avg value of readings calculated and displayed.
- Backlit LCD display.
- Metric/imperial conversion.
- Single and continuous measuring modes.

Technical Specifications

Model	*Metrix+* Coat Scope 27-4k
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	F : 0 - 4000um (0 - 160mils) NF : 0 - 3000um (0 - 120mils)
Accuracy	±1-3%n or ±2.5um
Resolution	0.1um(0~99.9um); 1um(over 100um)
Metric/Imperial	Selectable
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
Memory storage and recall	99 groups of measurement
Statistics	Max, min and avg value of readings
Additional features	Low Battery Indicator, Auto power off
Power supply	2 x 1.5V AAA(UM 4) battery

Operation environment	Temperature: 0 to 50℃ ; Humidity: < 95%
Size & Weight	130mm × 65mm × 35mm; 90g(not including batteries)
Standard Accessories	Coating Thickness Gauge, F/NF combine probe, '0' calibration blocks, standard foils, technical manual, hard carry case.
Optional Accessories	PC interface(cable and software)

Model and Specifications subject to change without notice.