

Sonacoat II-F & II-FN

- Easy to operate menu structure.**
- No calibration necessary.**
- Infrared interface for cable free data transfer.**
- Online statistics software.**
- Measurement memory & Statistic memory.**
- Choice of languages available.**

The Sonacoat is designed for fast, practical and accurate non destructive coating thickness measurement. A dual purpose innovative gauge used for measurement on steel and non-ferrous metals with automatic substrate recognition, activating the appropriate measuring procedure.

The Sonacoat II-F can be used for all non-ferrous coatings of varnish, paint, enamel, chrome, copper, zinc etc on steel and iron. This gauge is also suitable both for the laboratory and harsh field conditions. The built-in IP52 safeguards protection against dust and dripping water.

Never has gauge operation been so clear and so straightforward!

Measuring range: 0 - 1500 μ m / 60 mils

Up to 10 000 readings can be statistically evaluated: number of readings, mean value, standard deviation, minimum and maximum reading.

The innovative transducer construction ensures non destructive measurement of the most highly polished surfaces and soft coatings. Sensor contact pressure is uniform and kept to a minimum, so surfaces remain free from scratches and indentations.



Applications

Where ever coatings are applied, whether for visual and aesthetic grounds, or to prevent corrosion or for functional and mechanical purposes; coating thickness represents one of the essential criteria of quality assessment.

Paintshops and electroplaters for wet and powder coating operations.

Automobile/automobile parts industry for incoming material inspection, during production and for final inspection procedures.

Developmental engineering and expert assessment.

Laboratory and field operations.

Coating Thickness measurements on steel and non-ferrous metals

Specifications

Measuring principle	Magnetic induction principle (F version). Eddy-current principle (FN version).
Measuring range	0...1500 μ m / 0...60 mils (measuring unit operator-selectable).
Tolerance	(1 μ m + 3% of reading) / (0.04 mils + 3% of reading) related to Sonatest standards.
Resolution	0.1 μ m / 0.004 mils or < 2 % of reading.
Display	Back-light, 4-digit alphanumeric, digit height 10 mm / 0.4" inches.
Minimum measuring	5 mm x 5 mm / 0.2" x 0.2" inches.
Minimum curvature radius	Convex 3 mm / 0.12" x 0.12" concave: 50 mm / 2" inches.
Minimum substrate thickness	Type F: 0.5 mm / 20 mils type N: 50 μ m / 2 mils.
Calibration	Factory calibration, zero calibration, foil calibration.
Statistics	Number of readings, mean value, standard deviation, maximum and minimum reading of max. 10 000 readings.
Data Memory	Max. 80 readings, available singly; statistical values.
Limits	Adjustable with acoustic alarm system.
Interface	Infra-red.
Ambient Temperature	0-50 °C / 32-122 °F.
Power Supply	2 x mignon Alkaline batteries (AA) 1.5 V.
Dimensions	140 mm x 62 mm x 30 mm / 5.6" x 2.5" x 1.2" inches.
Transducer	Ø 14 mm x 83 mm / 0.56" dia. x 3.3" inches.
Weight	200 g / 7 ozs (gauge + transducer).
Protection	IP 52 (proof against dust and dripping water).
Standards	DIN, ISO, ASTM, BS.
Sonacoat Kit	Gauge, including transducer. Zero plate(s). 2 calibration standards. 2 batteries. Soft carrying pouch. Instruction manual.
Optional accessories	PC software for transfer of online and stored data. Infrared interface cable for standard PCs. Calibration standards in various thicknesses.

Infrared Interface

An infra-red interface (IrDA standard) enables data to be downloaded to a notebook with a corresponding infrared ring at the front of the transducer interface for further processing.

An optional infrared interface cable also permits data transfer to a standard PC (RS232) or printer (CENTRONICS or RS232).



A Sonatest NDE Group Company

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