

Advancing with Technology ElektroPhysik

Coating thickness
measurement

MiniTest 600



Compact and low-cost coating
thickness gauge

- for all coatings on steel e.g. paints, enamels, chrome, zinc...
- and for all insulating coatings on non-ferrous metals e.g. anodising or paint on aluminium, zinc diecasting etc.

New! Dual probe automatically adjusts to the correct substrate metal: ferrous/non-ferrous

MiniTest 600/MiniTest 600-B

(Basic version without statistics and interface)

Application

This compact, practical hand-held gauge has been designed for non-destructive, fast and precise coating thickness measurement.

Depending on gauge type, (see delivery schedule) measurements can be taken on

- all non-magnetic coatings (e.g. paints, enamels, chrome, zinc etc.) on steel
- all insulating coatings (anodising, paint coatings, ceramics) on all non-ferrous metals such as aluminium, copper, brass, austenitic stainless steel.

The gauge has especially been designed for use in the field of industrial corrosion prevention.

Readings as well as statistical values can be documented with the portable MiniPrint data printer.

For measurements in dark areas all models feature display backlight.

Description

The single pole probe is connected to the gauge by a 1 metre cable. The newly developed probe tip is made from very hard and wear resistant material which guarantees virtually unlimited life provided it is handled correctly.

According to model, the gauge is supplied with:

- a magnetic-induction probe for measurements on steel (F) or
- an eddy current probe for measurements on non-ferrous metals (N) or
- a dual probe (FN) for measurements on steel and on non-ferrous metal substrates (FN)

New! The dual FN probe automatically adjusts to the correct substrate metal: ferrous/non-ferrous. This feature is not available with the 600-B model. The gauges conform to DIN, ISO, BS, ASTM.



Measurement on a car body

Supply schedule

Gauge with selected probe, 2 batteries, control plate(s) with calibration foils, operating instructions, soft pouch.

Recommended accessories

- Rubber case to protect against mechanical shocks
- MiniPrint portable printer
- RS 232 cable for connection to PC or cable for connection to MiniPrint
- Rechargeable batteries with charger
- Twin case for gauge and printer
- Precision stand for small components
- MSoft7000 Basic Edition data transmission software

Technical data

Measuring range:	Type F (steel)	0 ... 3000 μm /120 mils
	Type N (NE-metal)	0 ... 2000 μm / 80 mils
	Type FN (dual probe)	0 ... 2000 μm / 80 mils
Tolerance:	\pm (2 % of reading + 2 μm)/ \pm (2% of reading + 0.08 mils)	
Minimum curvature radius:	5 mm/0.2" convex	25 mm/1" concave
Minimum measuring area:	\varnothing 20 mm/0.8"	
Minimum base thickness:	F: 0.5 mm/20 mils	N: 50 μm /2 mils
Display:	4-digit screen data (11 mm/0.44")	
Measuring units:	μm – mils user selectable	
Calibration:	standard, one-point, two-point	
Statistics:	\bar{x} , standard deviation, n (max. 9.999), min., max.	
Interface:	RS 232 C (not for model B)	
Power supply:	2 alkaline round cells (for over 10,000 readings)	
Dimensions/weight:	Gauge: 64 mm x 115 mm x 25 mm/2.56" x 4.6" x 1"	
	Probe: 15 mm dia. x 62 mm/0.6" dia. x 2.5"/270 g/9.50 ozs	
Operating temperature:	Gauge: 0° ... 50°C/32° ... 122°F	
	Probe: -10° ... 70°C/14° ... 158°F	



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