

Coating thickness  
measurement

**MiniTest 700**



**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 700

## 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.

The gauges conform to DIN, ISO, BS, ASTM.

## Supply schedule

Gauge with selected probe, 2 batteries, control plate(s) with calibration foils, operating instructions, soft pouch. Rubber case to protect against mechanical shocks.



Measurement on a car body

## Recommended accessories

- 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
- MSoft 7000 Basic Edition data transmission software

## Technical data

Measuring range:	Type F (steel)	0...3,000 $\mu\text{m}$
	Type N (NE-metal)	0...2,000 $\mu\text{m}$
	Type FN (universal probe)	0...2,000 $\mu\text{m}$
Tolerance:	$\pm (2 \mu\text{m} + 2\% \text{ of reading})$	
Minimum curvature radius:	5 mm (convex)	25 mm (concave)
Minimum measuring area:	$\varnothing 20 \text{ mm}$	
Minimum base thickness:	F: 0.5 mm	N: 50 $\mu\text{m}$
Display:	4-digit screen data	
Measuring units:	$\mu\text{m}$ – mils switchable	
Calibration:	standard, one-point, two-point	
Statistics:	$\bar{x}$ , std. dev., n (max. 9.999), min, max	
Interface:	RS 232 C	
Power supply:	2 alkaline round cells (for over 10,000 readings)	
Dimensions/weight:	Gauge: 64 mm x 115 mm x 25 mm	Probe: 15 mm dia. x 62 mm/270 g
Operating temperature:	Gauge: 0°–50°C	Probe: –10°–70°C

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