

Coating Thickness Measurement

**MiniTest 70 E / 70 B**  
**MiniTest 650 E / 650 B**



**Focusing on the substance**

- Gauges for use on the shop floor, in the automotive or other industries and quality-inspection
- With built-in or external sensors
- High degree of ergonomics, technology and product quality
- For all non-magnetic layers such as paint, enamel, chrome, galvanic zinc plating on steel
- For all insulating coatings such as paint, anodizing, ceramics on non-ferrous metals such as aluminium, copper, zinc die cast, brass, etc.

**Single-button operation – switch on and take readings**

## MiniTest 70 E and MiniTest 70 B

Especially designed for quick and easy non-destructive coating thickness measurement, the economical and basic models **MiniTest 70 E** and **70 B** are suitable for all non-magnetic coatings applied on steel and insulating coatings applied on non-ferrous-metals.

Focusing on easy operation, the small and handy gauges are the ideal tool for the mobile on-site use. No prior knowledge or instructions are required: Just switch on and proceed on measurement. The acquisition of a reading is confirmed by an audible signal.

A built-in dual sensor FN is available to identify the substrate material. According to the material, the gauge will automatically set to the matching measuring principle: magnetic induction or eddy-currents.

### Supply schedule

- Gauge with built-in sensor
- 2 zero reference plates
- 1 control standard
- 1 AA (Mignon) battery
- operating instructions
- belt pouch

### Technical Data

	70 E-FN	70 B-FN
Measuring range	F: 3 mm / N: 2.5 mm	F: 3 mm / N: 2.5 mm
Measuring uncertainty	± (3 µm + 5 % of reading)	± (2 µm + 3 % of reading)
Resolution	3 µm	1 µm
<b>Geometry of measuring sample</b>		
Curvature radius, convex	> 50 mm	> 10 mm
Curvature radius, concave	> 100 mm	> 50 mm
Diameter of measuring spot	> 50 mm	> 50 mm
Minimum substrate thickness	F: 0.75 mm / N: 0.1 mm	F: 0.75 mm / N: 0.1 mm
Units of measurement	µm or mils (fixed)	µm / mils (switchable)
Calibration procedure	-	1-Punkt

## MiniTest 650 E and MiniTest 650 B

The robust models **MiniTest 650 E** and **650 B** are particularly suited for the rough environment in the industrial corrosion protection. Thanks to their rugged design, these wear-resistant coating thickness gauges provide reliable high-accuracy readings throughout an extended service life. Particularly adapted to harsh working environments, the two models are most convenient for use in the automotive industry, in ship-yards, steel and bridge construction. Their rubber protection and durable housing provide excellent protection against shocks and impacts.

The models MiniTest 650 E-F and MiniTest 650 B-F measure all non-magnetic coatings such as paint, enamel, chrome or galvanic zinc plating on steel whereas the dual models MiniTest 650 E-FN and B-FN are also suited for all insulating coatings on non-ferrous metals such as paint, anodizing, or ceramics applied to aluminium, copper, zinc die-cast, brass, etc.

The external, extremely wear-resistant one-pole measuring sensor connects to the gauge via a one-meter cable. The dual sensor FN identifies the ferrous or non-ferrous substrate and automatically adjusts to the correct measuring mode. The measuring principle conforms to DIN, ISO, BS and ASTM.

### Supply schedule

- Gauge incl. sensor
- 3 AAA batteries
- 1 and/or 2 zero reference plate(s)
- control standard
- operating instructions
- soft pouch

### Technical Data

	650 E		650 B	
	F	FN	F	FN
Gauge type				
Measuring range	3 mm	2 mm	3 mm	2 mm
Measuring uncertainty	± (3 µm + 5 % of reading)		± (2 µm + 3 % of reading)	
Resolution	3 µm		1 µm	
<b>Geometry of measuring sample</b>				
Curvature radius, convex	> 50 mm		> 10 mm	
Curvature radius, concave	> 100 mm		> 50 mm	
Diameter of measuring spot	> 50 mm		> 50 mm	
Minimum substrate thickness	F: 0.75 mm / N: 0.1 mm		F: 0.75 mm / N: 0.1 mm	
Units of measurement	µm or mils (fixed)		µm or mils (fixed)	
Calibration procedure	-		One-point	

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