# Advancing with Technology Elektro Physik



### MiniTest 70E / 70B MiniTest 650E / 650B



#### Focusing on the substance

- Gauges for use on the shop floor, in the automotive or other industries and quality inspection
- 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

Especially designed for quick and easy non-destructive coating thickness measurement, the economical and basic models MiniTest 70E and 70B are suitable for all nonmagnetic 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 gauically set to the matching measuring prir induction or eddy-currents.

#### Supply schedule

- Gauge with built-in sensor 1 AA (Mig
- 2 zero reference plates ■ 1 control standard

- operating: belt pouch

uge will automat- nciple: magnetic	Diameter of measuring spot	> 50 mm / 2"	> 50 mm / 2"
	Minimum substrate thickness	F: 0.7 mm / 28 mils N: 0.1 mm / 4 mils	F: 0.7 mm / 28 mils N: 0.1 mm / 4 mils
	Units of measurement	metric / imperial (user selectable)	metric / imperial (user selectable)
gnon) battery	Calibration procedure	factory calibration	factory calibration, zero calibration

Geometry of measuring sample

**Technical Data** 

Measuring range

Resolution

Measuring uncertainty

Curvature radius, convex

Curvature radius, concave

70E FN

F: 0...3 mm / 120 mils

± (0.12 mils + 5% of

 $2 \mu m / 0.08 mils$ 

reading)

> 50 mm / 2"> 100 mm / 4"

N: 0...2.5 mm / 100 mils

 $\pm$  (3  $\mu$ m + 5% of reading)

70B FN

F: 0...3 mm / 120 mils

 $\pm (0.08 \text{ mils} + 3\% \text{ of}$ 

 $1 \mu m / 0.04 mils$ 

> 10 mm / 0.4"

> 50 mm / 2"

reading)

N: 0...2.5 mm / 100 mils

 $\pm$  (2  $\mu$ m + 3% of reading)

### MiniTest 650E and MiniTest 650B

The robust models MiniTest 650E and 650B are particularly suited for the rough environment in the industrial corrosion protection. Thanks to their rugged design, these wearresistant coating thickness gauges provide reliable highaccuracy 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 650E F and MiniTest 650B F measure all non-magnetic coatings such as paint, enamel, chrome or galvanic zinc plating on steel whereas the dual models MiniTest 650E 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,

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							
	650E		650B				
Gauge type	F	FN	F	FN			
Measuring range	03 mm / 120 mils	02 mm / 80 mils	03 mm / 120 mils	02 mm / 80 mils			
Measuring uncertainty	± (3 μm + 5 % of reading) ± (0.12 mils + 5 % of reading)		$\pm$ (2 $\mu m$ + 3 % of reading) $\pm$ (0.12 mils + 5 % of reading)				
Resolution	$2~\mu\text{m}$ / $0.08~\text{mils}$		1 $\mu\text{m}$ / 0.04 mils				
Geometry of measuring sample							
Curvature radius, convex	urvature radius, convex > 50 mm / 2"		> 10 mm / 0.4"				
Curvature radius, concave	ncave > 100 mm / 4"		> 50 mm / 2"				
Diameter of measuring spot	> 50 mm / 2"		> 50 mm / 2"				
Minimum substrate thickness	F: 0.70 mm / 28 mils N: 0.1 mm / 4 mils		F: 0.7 mm / 28 mils N: 0.1 mm / 4 mils				
Units of measurement	according to model $\mu\text{m}/$ mm or mils/inch		according to model $\mu\text{m}/$ mm or mils/inch				
Calibration	factory calibration		factory calibration, zero calibration				

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