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ELECTROMATIC Equipment Co., Inc.
600 Oakland Ave. Cedarhurst, NY 11516—USA
Tel: 1-800-645-4330/ Tel: 516-295-4300/ Fax: 516-295-4399

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1.0 Introduction

PaintCheck is a Paint Thickness Gauge especially suited for car bodies. It non-destructively measures coatings, e.g. lacquer, paint, plastic, rubber, enamel etc., on iron/steel and on non-ferrous metals such as aluminium.

PaintCheck automatically recognizes the base material (iron/steel or non-ferrous metal) and then displays the correct coating thickness. In addition, with “Ferr” or “Non-Ferr,”,the display indicates whether measurement was made on iron/steel or on non-ferrous metal.

2.0 Power Key - On / Off

Switching On: Press the **Power Key** briefly.

Switching Off: Press AND HOLD the **Power Key** for about 2 seconds.

Auto Off: 1.5 min after the last measurement.

8.0 Technical Data

Measuring range	0" – 0.08" *(0 – 2mm)*
Tolerance	±5 µm (+5% of readings)
Resolution	0 – 500 µm 5 µm 500 µm – 1,000 µm 10 µm 1,000 µm – 2.000 µm 25 µm
Display/height of digits	4-digits / 0.39" *(10mm)*
Minimum measuring area	1.57" x 1.57" *(40mm x 40mm)*
Minimum curvature radius	
convex	1.97" *(25mm)*
concave	.98" *(50mm)*
Minimum substrate thickness	
iron/steel	2.95" *(0.75mm)*
non-ferrous metal	.98" *(0.25mm)*
Calibration	not necessary
Temperature range	32 – 122 °F *(0 – 50 °C)*
Surface temperature of specimen	59 – 140 °F *(15 – 60 °C)*
Power supply	2 x Micro (AAA) 1.5V
Dimensions	4.3" x 1.97" x .98" *(110 x 50 x 25mm)*
Weight incl. batteries	0.2 lbs. *(90 g)*
Protection class	IP52 protection against dust and dripping water

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Surface temperature of specimen	59 – 140 °F *(15 – 60 °C)*
Power supply	2 x Micro (AAA) 1.5V
Dimensions	4.3" x 1.97" x .98" *(110 x 50 x 25mm)*
Weight incl. batteries	0.2 lbs. *(90 g)*
Protection class	IP52 protection against dust and dripping water

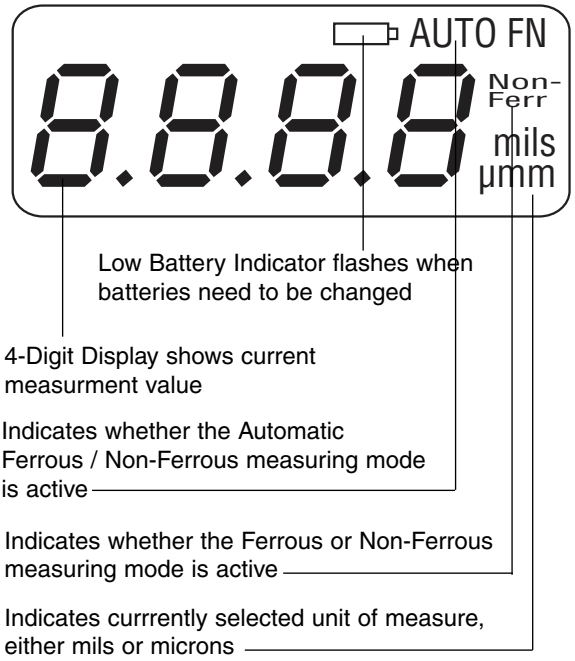
7.0 Methods of measurement and standards

PaintCheck operates with the magnetic-inductive and the eddy current methods. It corresponds to the following standards:

Magnetic method:
DIN EN ISO 2808,
DIN EN ISO 2178,
ASTM B499,
DIN 50 982
ISO 19840

Eddy current method:
DIN EN ISO 2808,
DIN EN ISO 2360,
ASTM D1400

3.0 Display



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Eddy current method:
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DIN EN ISO 2360,
ASTM D1400

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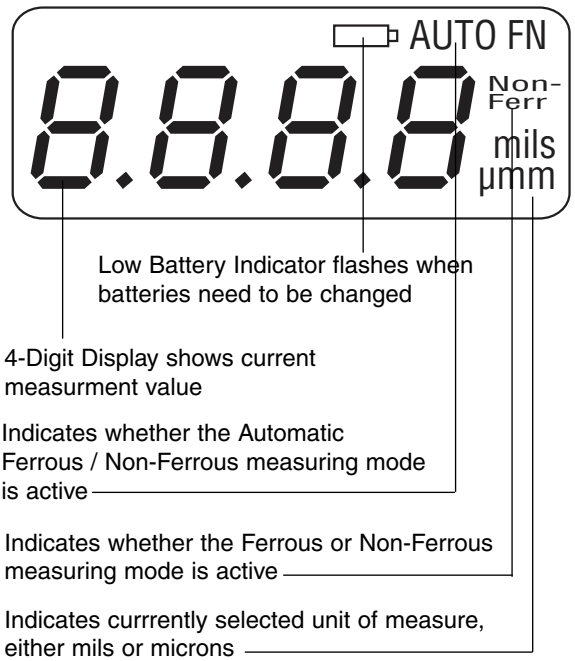
3.0 Display



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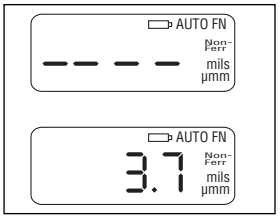
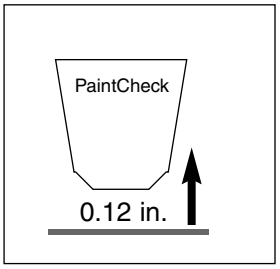
4.0 MEASUREMENT

After switching on the gauge, either four dashes *or* the last measurement value will appear on the display.



At this point, you can immediately start to measure. Position the instrument on the surface to be measured and new thickness value will appear on the display.

NOTE: After each measurement, lift the instrument a minimum of 0.12 in. *(3 cm)* from the measurment surface before you take another measurement.

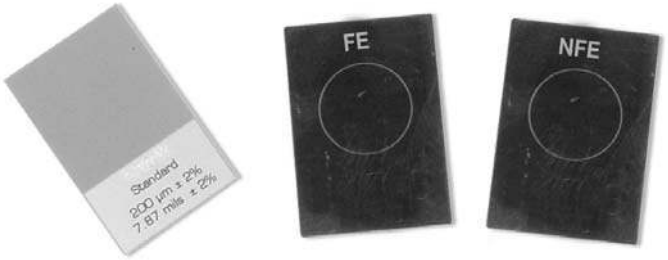


5.0 SELECTING THE UNIT OF MEASURE

1. Note the current measuring unit.
2. Switch the instrument OFF.
3. Switch on the instrument ON with the Power Key and keep this key pressed until a beep sound is heard.
4. Release the key and the instrument will be switched switches into the other unit of measure: either from µm to mils or the vice versa.

6.0 VERIFYING GAGUE ACCURACY

You can check the accuracy of the instrument using the included zero plates “Fe” or “NFE” and the supplied measurement calibration standard. The permitted measurement tolerance is given in the Technical Data (section 8.0).



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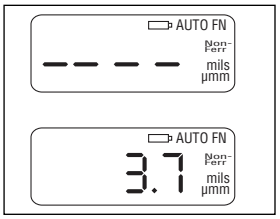

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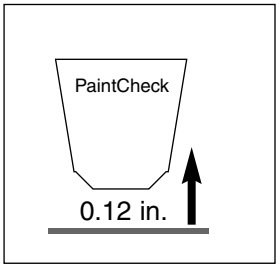

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5.0 SELECTING THE UNIT OF MEASURE

1. Note the current measuring unit.
2. Switch the instrument OFF.
3. Switch on the instrument ON with the Power Key and keep this key pressed until a beep sound is heard.
4. Release the key and the instrument will be switched switches into the other unit of measure: either from µm to mils or the vice versa.

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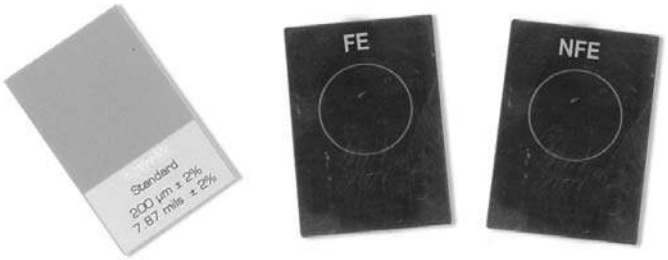
You can check the accuracy of the instrument using the included zero plates “Fe” or “NFE” and the supplied measurement calibration standard. The permitted measurement tolerance is given in the Technical Data (section 8.0).



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BY ELECTROMATIC

PaintCheck
Coating Thickness Gauge

Operating Instructions

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