

**Coating thickness gauge
Brand: HELMUT FISCHER**

Code: DUALSCOPE® MP0R-FP-BT /605-388



Equipment designed for high-precision thickness measurement of thin layers of non-ferrous metals (chrome, copper, zinc, etc.), as well as layers of enamel, paint, varnish or plastic coating on steel and iron.

Features:

Measuring method Magnetic induction method (ISO 2178, ASTM D7091, Measurement of non-magnetic coatings on magnetic substrates);

Eddy current method (ISO 2360, ASTM D7091, Measurement of non-conductive coatings on non-magnetic substrate metals);

Automatic selection of the measuring method corresponding to the substrate material

Probe Probe tip radius: 2mm (78 mils); Probe tip material: Hard metal

Data memory Max. 10,000 individual readings; the contents of the memory is retained even without batteries

Measuring frequency More than 70 measurements per minute



Measurement acquisition Automatic upon placement of the probe; indication of the measurement with a beep visually with a green lit LED

Display limit value violation Acoustically through 2 short beeps and visually with a red lit LED

Display • Graphic display with an automatically turning display in order to read the measurement results in many different instrument positions

- LCD display on the top side of the instrument, e.g., for reading the measurement value for measuring overhead

Languages Many different display languages are selectable: German, English and several other European and Asian languages

USB port 2.0 compatible, mini type B socket, for connecting to PC bluetooth-interface model DUALSCOPE MP0R-FP-BT only

Bluetooth module integrated in the instrument model DUALSCOPE MP0R-FP-BT,

Bluetooth v2.1 + EDR, class 2

Data transfer Single readings, mean values, group separator

Admissible ambient temperature range during operation 0 ... +40 °C (+32 ... +104 °F)

Includes:

Instrument case; instrument encased in an impact protective cover; lanyard; 2 batteries; metal plates NF/FE and ISO/NF for testing purposes; calibration standards, calibration foil (foil thickness about 75 µm (2.95 inches)); operator's manual; manufacturer's certificate; usb cable; support CD with USB drivers, software program FISCHER DataCenter for convenient evaluating, documenting and archiving of the measurement data, software program PC-Datex for exporting the measurement data to an Excel spreadsheet.

Full Specifications

Dry film

Probe: integrated with cable Substrate: Ferrous / Non-Ferrous

Coating: Conductive / Non-Conductive

Weight (incl. batteries) MP0R-FP-BT: approx. 184g (6.5oz)

Power supply: 2 Batteries, LR6, AA, 1.5 V

EIN 37-1939950

11300 NW 87 CT STE 150 Telephone: 786 816 7489 E-mail: info@testglassware.com

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Dimensions:

Instrument: Width: 64mm (2.52"); Depth: 28mm (1.10"); Height: 85mm (3.35")

MeasurementRange:

Steel or iron substrates (Fe): 0 ... 2000 μ m (78 mils)

Nonferrous metal substrates (NF): 0 ... 2000 μ m (78 mils)

Trueness Steel or iron substrates (Fe):

0...1075 μ m: \leq 1.5 μ m

1075 ... 1000 μ m: \leq 2 % of nominal value

1000 ... 2000 μ m: \leq 3 % of nominal value

0.9 ... 12.9 mils: \leq 0.06 mils

32.9 ... 39 mils: \leq 2 % of nominal value

39.9 ... 78 mils: \leq 3 % of nominal value

Trueness Nonferrous metal substrates (NF)

0 ... 1050 μ m: \leq 1 μ m

1050 ... 1000 μ m: \leq 2 % of nominal value

1000 ... 2000 μ m: \leq 3 % of nominal value

0 ... 12 mils: \leq 0.039 mils

12 ... 39 mils: \leq 2 % of nominal value

39 ... 78 mils: \leq 3 % of nominal value

Repeatability: Precision Steel or iron substrates (Fe)

0...1050 μ m: \leq 0.25 μ m

50 ... 2000 μ m: \leq 0.5 % of reading

0 ... 12 mils: \leq 0.0098 mils

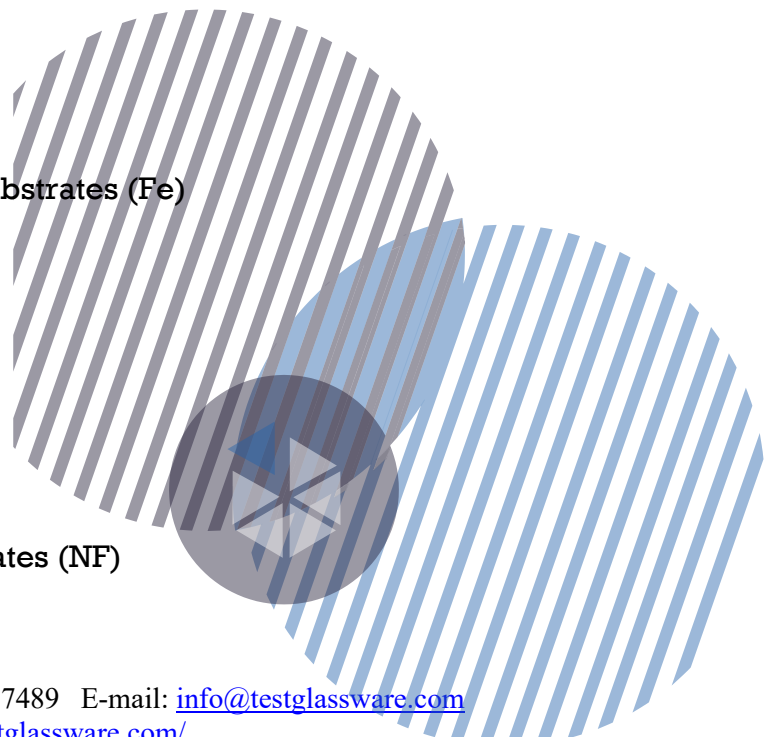
2 ... 78 mils: \leq 0.5 % of reading

Repeatability: Nonferrous metal substrates (NF)

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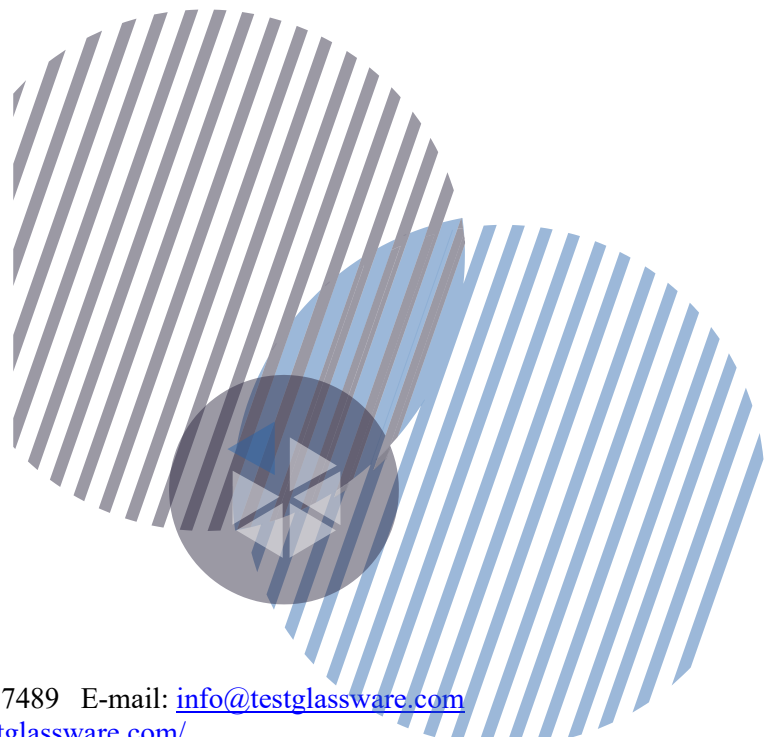


0...1100 μ m: $\leq 0.5 \mu$ m

100 ... 2000 μ m: ≤ 0.5 % of reading

0.9 ... 73.9 mils: ≤ 0.0195 mils

3.9 ... 78 mils: ≤ 0.5 % of reading



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