

# *DUALSCOPE<sup>®</sup> MPOR, ISOSCOPE<sup>®</sup> MPOR and PERMASCOPE<sup>®</sup> MPOR from Fischer Technology, Inc.*

## Precise measurement - from all angles! Perfection in coating thickness measurement

The MPOR series of pocket size coating thickness measuring instruments offers innovative features.

- Two backlit LCD displays\* - a large front panel display and a top panel display - for safe and convenient viewing of the coating thickness reading in any position.
- The Dualscope MPOR automatically recognizes the substrate material and selects the appropriate measurement method.
- The Isoscope MPOR is for use on NFe substrates only.
- The Permascope MPOR is for use on Fe substrates only.

The MPOR series instruments measures the thickness of

- paint, lacquer, synthetic or anodized coatings on all non-magnetic materials such as aluminum, copper, brass or stainless steel using the eddy current method according to DIN EN ISO -2360 (Isoscope & Dualscope)
- Zinc, chromium, copper, paint, lacquer, synthetic coatings on steel and iron using the magnetic method according to DIN EN ISO 2178 (Permascope & Dualscope only)

Typical fields of application

- The automotive industry
- Operations processing paint and lacquer
- Electroplating plants
- The aeronautics industry
- Laboratories - in manufacturing or on site
- Final inspection or receipt of goods
- Test institutes or consultants



## Features and Technical Data

- User-friendly one-hand operation: simply place the instrument on the specimen and read the measurement.
- Ergonomic design with two backlit displays for optimum viewing of readings in any measurement position.
- Integrated dual probe, spring-loaded for constant pressure with low contact force.
- Automatic On/Off function. Ready to measure right away without calibration.
- Automatic selection of the measurement method - magnetic or eddy current - Dualscope only.
- Selectable microns or mils display.
- Fast - 70 readings per minute. Continuous scan of measurement surface.
- Adaptation to the substrate material and the shape of the specimen and to a thickness value using a calibration foil
- Quick selection of functions via user friendly menu. Scroll through previous measurements.
- Adjustable tolerance limits, depending on the selected measurement mode.
- 10,000 reading memory with USB data transfer; measurements retained even without power supply.
- Display of single readings, mean values, standard deviation, MIN, MAX and number of measurements per block. Adjustable between 2 and 20 single readings per block.
- Statistical functions along with SSPC PZ2, IMO PSPC measuring modes
- Freely selectable offset value for automatic addition or subtraction of a constant value.

## TECHNICAL DATA

	DUALSCOPE • MPOR	ISOSCOPE • MPOR	PERMASCOPE • MPOR
Catalog Number	604-555	604-558	604-533
Measurement Ranges	Fe 0 - 2000 $\mu\text{m}$ (0 - 78 mils) NF 0 - 2000 $\mu\text{m}$ (0 - 78 mils)	NF 0 - 1200 $\mu\text{m}$ (0 - 46.8 mils)	Fe 0 - 2500 $\mu\text{m}$ (0 - 97.5 mils)
Trueness based on Fischer standards	Fe 0 - 75 $\mu\text{m} \leq 1.5 \mu\text{m}$ 75-1000 $\mu\text{m} \leq 2\%$ of reading 1000-2000 $\mu\text{m} \leq 3\%$ of reading NFe 0 - 50 $\mu\text{m} \leq 1 \mu\text{m}$ 50-1000 $\mu\text{m} \leq 2\%$ of reading 1000-2000 $\mu\text{m} \leq 3\%$ of reading	0 - 70 $\mu\text{m} \leq 1 \mu\text{m}$ 70-250 $\mu\text{m} \leq 1.5\%$ of reading 250-1000 $\mu\text{m} \leq 3\%$ of reading	0 - 100 $\mu\text{m} \leq 1.5 \mu\text{m}$ 100-1000 $\mu\text{m} \leq 1.5\%$ of reading 1000-2500 $\mu\text{m} \leq 3\%$ of reading  0 - 3.9 mils $\leq 0.06$ mils 3.9 - 39 mils $\leq 1.5\%$ of reading 39 - 97.5 mils $\leq 3\%$ of reading
Repeatability precision based on Fischer standards	Fe 0 - 50 $\mu\text{m} \leq 0.25 \mu\text{m}$ 50-2000 $\mu\text{m} \leq 0.5\%$ of reading  NFe 0 - 100 $\mu\text{m} \leq 0.5 \mu\text{m}$ 100-2000 $\mu\text{m} \leq 0.5\%$ of reading	0 - 100 $\mu\text{m} \leq 0.5 \mu\text{m}$ 100-500 $\mu\text{m} \leq 0.5\%$ of reading 500-1200 $\mu\text{m} \leq 1\%$ of reading	0 - 100 $\mu\text{m} \leq 0.3 \mu\text{m}$ 100-2500 $\mu\text{m} \leq 0.3\%$ of reading  0 - 3.9 mils $\leq 0.0117$ mils 3.9-97.5 mils $\leq 0.3\%$ of reading
Weight	137 g (4.8 oz) (with batteries)		
Dimensions	W x D x H: 64 x 28 x 85 mm (2.5" x 1.1" x 3.35")		
Power supply	2 x LR6, AA, 1.5V		
Data Communication	Bi-directional USB Interface		

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