

Fischer DUALSCOPE[®] and PERMASCOPE[®] MPOR

Pocket Instruments

Convenient, fast powder coating thickness measurement for virtually all metals.

The DUALSCOPE MPOR and PERMASCOPE MPOR instruments measure the thickness of powder coatings easily, quickly and nondestructively. Designed for precision, these units incorporate a compact, robust and lightweight design, making them ideal for onsite applications.

Features and Benefits:

- Intuitive operation of the menu navigation and graphic display. The display rotates automatically, like a smart phone.
- Two LCD displays allow for reading the measurements in various positions, for example, measuring overhead.
- Units of measurement can be switched between μm and mils.
- Memory for up to 10,000 readings. The contents of the memory are retained even without batteries.
- Different languages are selectable.
- Instant measurement upon probe placement.
- Manufacturer's certificate, included in the standard scope of delivery.
- The specimen's shape and permeability have a comparatively low influence on the measurement.
- Audible signal with measurement acquisition.
- Easy adaptation to the shape of the specimen through a zero-point correction.
- Easy to perform corrective calibration for verification of accuracy.
- Patented conductivity compensation for measurements on non-magnetic substrate materials.



The PERMASCOPE MPOR is meant for use on ferrous steel or iron substrates; the DUALSCOPE MPOR can be used on both ferrous and non-ferrous substrates, making it ideal for virtually all metal applications. They provide accurate measurements on both smooth and rough surfaces.

Both units display mean value, standard deviation, MIN, MAX and number of measurements per block. Featuring Fischer DataCenter software, measurement data can be transferred to the PC for fast, easy evaluation. Customized inspection reports can also be created, printed and archived.

Each individual instrument is factory calibrated at several reference points with the greatest care to provide the highest possible degree of trueness. Corrective calibration can be done by adaptation to the substrate material and the shape of the specimen and to a thickness value using a supplied calibration foil.

Special Measuring Modes

The DUALSCOPE MPOR and PERMASCOPE MPOR instruments provide standard measuring mode for simple, universal coating thickness measurements, with all function available. In addition, two special measuring modes are available, in accordance with the measurement regulations IMO PSPC (90/10-Rule) and SSPC-PA2.

- **IMO PSPC 90/10 (90.10):** 90/10 rule stored in the instrument for coating thickness measurements according to the requirements of the “Performance Standard for Protective Coatings” of the International Maritime Organization (IMO PSPC).
- **SSPC-PA2 (SSPC):** Coating thickness measurement according to the test specification SSPC-PA2 of the Society for Protective Coatings (SSPC).

Service Worldwide

Fischer has established a tightly linked, highly qualified global network of service partners. Offering fast help and repairs, Fischer supports you in every respect concerning your instruments and their use.

Calibration and Certification

Fischer Technology performs a full inspection and calibration of all instruments and probes prior to customer delivery. A broad assortment of calibration standards is available and a certification certificate is issued with every instrument and calibration standard.

For more information, speak with your Nordson representative or contact your Nordson regional office.

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	DUALSCOPE MPOR		PERMASCOPE MPOR
	Steel or iron substrates (Fe)	Nonferrous metal substrates (NFe)	Steel or iron substrates (Fe)
Measurement Range	0 ... 2000 µm (78 mils)	0 ... 2000 µm (78 mils)	0 ... 2500 µm (97.5 mils)
Trueness– based on Fischer standards	0 ... 75 µm: ≤ 1.5 µm 75 ... 1000 µm: ≤ 2 % of reading 1000 ... 2000 µm: ≤ 3 % of reading 0 ... 12.9 mils: ≤ 0.06 mils 2.9 ... 39 mils: ≤ 2 % of reading 39 ... 78 mils: ≤ 3 % of reading	0 ... 50 µm: ≤ 1 µm 50 ... 1000 µm: ≤ 2 % of reading 1000 ... 2000 µm: ≤ 3 % of reading 0 ... 12 mils: ≤ 0.039 mils 2 ... 39 mils: ≤ 2 % of reading 39 ... 78 mils: ≤ 3 % of reading	0 ... 100 µm: ≤ 1.5 µm 100 ... 1000 µm: ≤ 1.5 % of reading 1000 ... 2500 µm: ≤ 3 % of reading 0 ... 13.9 mils: ≤ 0.06 mils 3.9 ... 39 mils: ≤ 1.5 % of reading 39 ... 97.5 mils: ≤ 3 % of reading
Repeatability Precision	0 ... 1050 µm: ≤ 0.25 µm 50 ... 2000 µm: ≤ 0.5 % of reading 0 ... 12 mils: ≤ 0.0098 mils 2 ... 78 mils: ≤ 0.5 % of reading	0 ... 1100 µm: ≤ 0.5 µm 100 ... 2000 µm: ≤ 0.5 % of reading 0 ... 1 3.9 mils: ≤ 0.0195 mils 3.9 ... 78 mils: ≤ 0.5 % of reading	0 ... 100 µm: ≤ 0.3 µm 100 ... 2500 µm: ≤ 0.3 % of reading 3.9 mils: ≤ 0.0117 mils 3.9 ... 97.5 mils: ≤ 0.3 % of reading
Ordering Data	1605779 DUALSCOPE MPOR, probe integrated in the measuring instrument		1605780 PERMASCOPE MPOR, probe integrated in the measuring instrument
Scope of Supply	Instrument case; protective instrument cover; lanyard; 2 batteries; metal plates NF/FE and ISO/NF for testing purposes; calibration foil; 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 PCDatex for exporting the measurement data to an Excel spreadsheet		