PERMASCOPE[®] MPO PERMASCOPE[®] MPO-FP

Pocket Instruments for Simple and Fast Coating Thickness Measurement on Steel and Iron





PERMASCOPE[®] MP0 Models

Description

	The PERMASCOPE measuring instruments measure coating thicknesses easily, quickly, non-destructively and with the precision that is typical for all Fischer instruments.
Instrument properties	 Ideal for onsite applications due to the compact size, the light weight and the robust and durable instrument design
	 Intuitive operation of the menu navigation and graphic display.
	 Second display for reading the measurement results directly on the top side of the instrument, e.g., for measuring overhead
	Different languages are selectable
	 Manufacturer's certificate, included in the scope of supply
Generating measurements	 The specimen's shape and permeability have a comparatively low influence on the measurement results
Applications	Steel or iron substrates (Fe)
Examples	 Zinc, chromium, copper, paint, varnish and plastic coatings on steel, iron or cast iron (Fe)
	 Measurements both on smooth and rough surfaces
	The instruments are particularly suited for highly precise measurements of thin coating.
Models	
	 PERMASCOPE MPO: Probe integrated in the measuring instrument for single-handed operation
	 PERMASCOPE MPO-FP: Probe with cable (80 cm; 31.5 ") permanently connected to the instrument, for measurements on various specimen shapes
Evaluation	
Statistics	Display of mean value, standard deviation, MIN, MAX and number of all measurements stored in the instrument memory

Measurement Functions

Units of measurement	Selectable µm or mils
Continuous display mode	Measurement in "continuous display mode" for continuous sampling of the surfaces, e.g in the manufacture of tanks and containers.
Normalization	Adaptation to the substrate material and the shape of the specimen.
Calibration	Factory calibration Each individual instrument is factory calibrated at several reference points with the great est care to ensure the highest possible degree of trueness. Calibration (Adjustment) Adaptation to the substrate material and the shape of the specimen and to a thickness value using a calibration foil. Simple Calibration Adaption to the coating and substrate material in one step using a coated reference points with a coating thickness higher than 200 µm (7.87 inches). This kind of calibration sup plies only a lower accuracy.
General Features Measuring method	Magnetic induction method (ISO 2178, ASTM D7091, Measurement of non-magnetic
0	coatings on magnetic substrates)
Probe	Probe tip radius: 2 mm (78 mils); Probe tip material: Hard metal
Data memory	Max. 1,000 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	 Graphic display, in addition to the measurement reading the mean value and the sta ard deviation or the number of measurement reading can also be displayed LCD display on the top side of the instrument, e.g., for reading the measurement value for measurement overhead
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Admissible ambient temperature range during operation Weight (incl. batteries)

Power supply

0 +40 °C (+32 ... +104 °F)

MPO: 137 g (4.8 oz) MPO-FP: 184 g (6.5 oz) 2 Batteries, LR6, AA, 1.5 V

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Dimensions



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