

MAGNETOSCOPI® 1.070

For Magnetic Field and Permeability Measurement



Compact Precision

The MAGNETOSCOPI 1.070 is a portable magnetometer system with microprocessor and probes for measuring the magnetic flux density as an absolute or differential value (gradient). It has a USB port for simple data transfer and an SD card for saving measurement data and parameters. The measuring system also facilitates the recognition and saving of peak values and the adjustment of thresholds for limit values. The unit can be used for series and individual measurements. The data can be easily analyzed and documented with the PC software included in the scope of delivery. The MAGNETOSCOPI 1.070 thus facilitates the portable and fast measurement of the relative permeability within the scope of the quality control of stainless steel and low-permeable (non-magnetic) alloys as well as the localization of ferrite enclosures. Changes in material (sulfidation, degradation of lamination, structural changes) can also be proven thanks to permeability comparative measurements.

Your advantages at a glance

- Portable, microprocessor-controlled magnetometer system
- Measure magnetic flux density, absolute or gradient
- Probe for measurement of relative permeability μ_r in accordance with IEC 60404-15 and ASTM A342M
- 3,5" colour display
- USB interface for data transfer

Technical Data

Measurement range:	0.1 nT to 50 mT μ_r 1.0 to 2.0
Uncertainty of field measurement:	1.5 % of the measurement range
Uncertainty of permeability measurement:	5 % of the measured value
Resolution:	24 Bit ADC
Dimensions measurement instrument:	221 x 102 x 41 mm
Weight measurement instrument incl. batteries:	0.62 kg
Protection grade:	IP 54
Ambient temperature:	0 to 40 ° C
Battery type:	4 x Mignon, AA, LR6

Norms

IEC 60404-15 Section 6

Describes the determination of the relative permeability μ_r in the range from 1.0 to 2.0 using the probe measuring method. The method described above is advantageous as it provides the option to perform measurements of materials and finished components directly on site. It is not required to manufacture special measuring samples.

ASTM A342M method 4

Describes the determination of the relative permeability μ_r in the range from 1.0 to 2.0 using the probe measuring method. The method described above is advantageous as it provides the option to perform measurements of materials and finished components directly on site. It is not required to manufacture special measuring samples.

STANAG 2897 and AEODP-7

Specify the framework for the testing of non-magnetic tools for use in explosive ordnance disposal (EOD). The test method is based on the measurement of the magnetic residual field of the components to be tested using an absolute or gradient magnetometer.

API Spec 7

Describes the testing of oil drilling rigs for the detection of non-magnetic properties. The test method is based on the measurement of the magnetic residual field and relative permeability μ_r .

VG 95578

Describes the determination of the relative permeability μ_r in the range from 1.0 to 2.0 using the probe measuring method. The method described above is advantageous as it provides the option to perform measurements of materials and finished components directly on site. It is not required to manufacture special measuring samples.

AUTHORIZED DISTRIBUTOR

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