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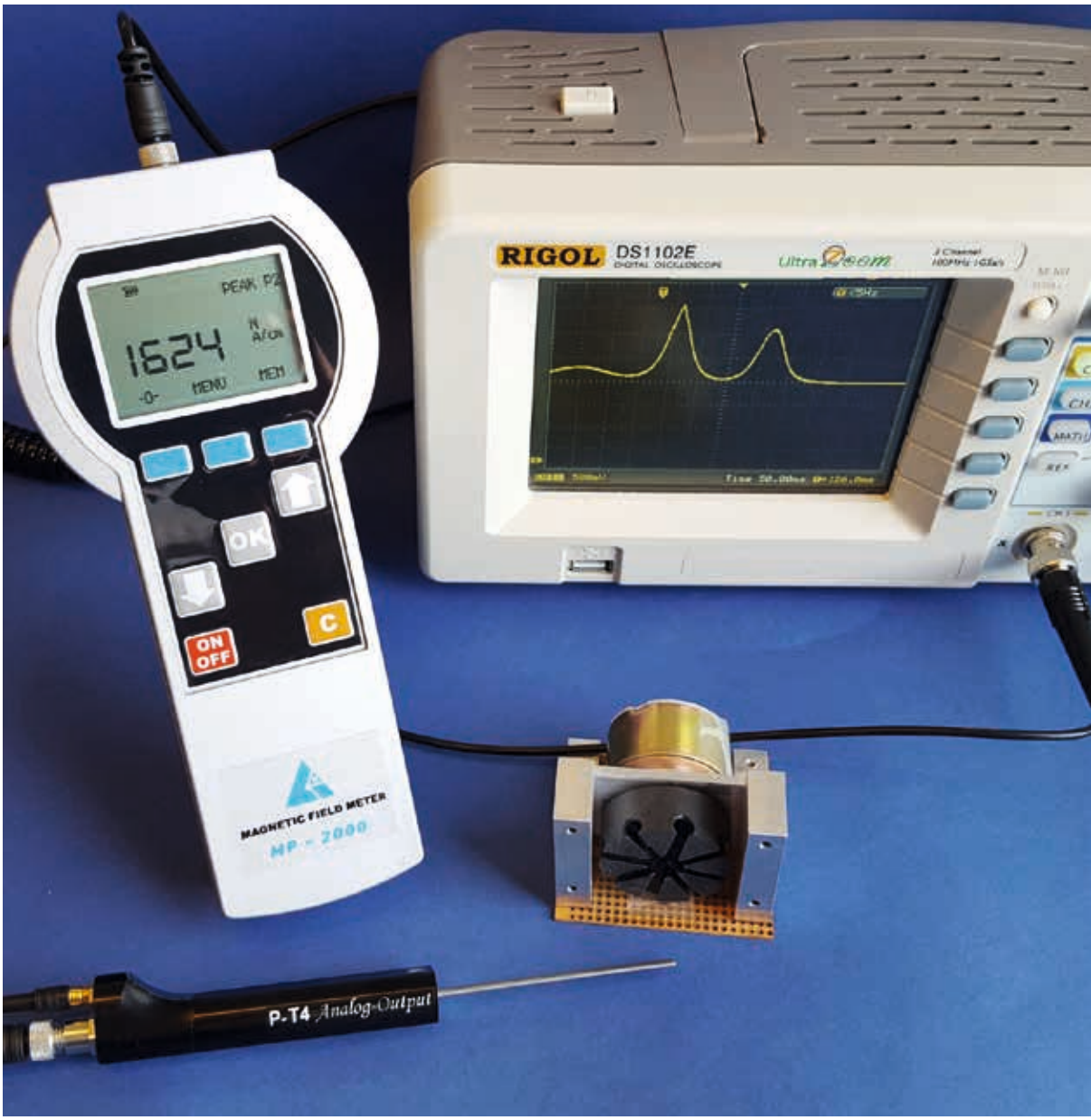
INSTRUMENTOS DE MEDICIÓN INDUSTRIAL

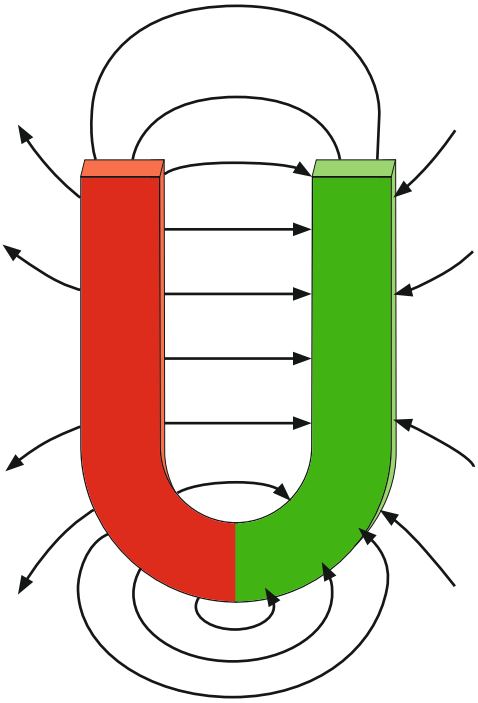
Medidor de Campo Magnético MP-2000 con sonda de campo transversal P-T4, List Magnetik

LM-MP2000

MAGNETIC FIELD METERS / PERMEABILITY METERS



INFORMATION
Magnetic Field Measuring



Magnetic fields are invisible. The magnetism of a workpiece can only be recognized by the effect on other steel parts or chips. Often, however, residual magnetism is an undesirable effect, and that is why it is increasingly the subject of quality audits. Magnetism is also an important component of mechanical engineering. Without a magnet, there is no electric motor. The functionality of a magnetic switch depends on the strength of the actual magnet. For the magnetization of ferrite or neodymium materials, strong magnetic fields are required, which must be dynamically measurable during generation.

Our company name, "List-Magnetik", speaks for itself. For decades, magnetization and magnetic field measurements have been our core competences. Behind all of our customer-specific magnetizing systems, demagnetizing devices and the serial production of magnetic measuring devices, are our many years of comprehensive experience and well-founded know-how. Our measuring instruments recognize both magnetic fields with the minimum strength of the earth's magnetic field, as well as strong pulse fields, which enables us to meet all of your application requirements. We offer technically advanced solutions "Made in Germany", from the small hand-held compact device to the analog display on the oscilloscope, Special equipment such as flux meters and permeability measuring devices complete our range of services.

MP-2000
Magnetic Field Meter

With the magnetic field meter **List-Magnetik MP-2000**, we offer you a first class, high-end product, with externally connectable axial and tangential field probes. With the easy to use device, you can precisely measure magnetic DC and AC fields as well as pulse fields of all kinds. The range of application ranges from the earth's magnetic field to a field strength of 40,000 A/cm, switchable in Gauss/Oersted and Tesla. The built-in data logger, the combined digital and analog display as well as the optional data transfer via USB, allows flexible use.
Especially at high magnetic field strengths, an absolutely interference-free and precise measurement is required. For this reason, a microcontroller digitizes and linearizes the analog measuring signals of the Hall sensor into the probe in the measuring probes of the **MP-2000**.
The fast peak value memory allows measurements in pulse fields from 0.1 m/sec. In addition, an oscilloscope for the representation of dynamic magnetic fields can be connected via the special probe P-T4A with analog output. A further advantage is that the probe cable can be plugged in on both sides connects the display unit and the probe and can be easily replaced in the event of a cable fault.

The universally applicable **MP-2000** tests for residual magnetism, measures magnetic fields of all types and locates stray detectors for crack detection.

MP-1000
Magnetic Field Meter

The **List-Magnetik MP-1000** magnetic field meter is a handy universal device with externally connectable tangential and axial field probes for the precise measurement of all types of magnetic fields: steady DC fields, alternating AC fields and pulsed fields.

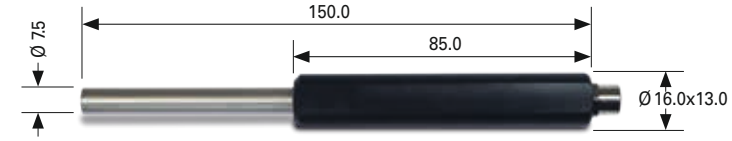
With the easy one-button operation, magnetic field strength can be measured from the weak earth magnetic field up to strong fields of 20,000 A/cm, switchable in Gauss/Oersted.

A separate built-in micro controller in the **MP-1000**'s measuring probes digitizes and linearizes the analog measurement signals of the hall sensor into the probe. This gives an extremely trouble-free and precise measurement, especially at high magnetic field strengths. The probe cable is pluggable at both ends, at the display unit and the probe, which is particularly service-friendly, as the cable can simply be replaced if it becomes faulty. Applications of the **MP-1000** are the test for residual magnetism, the measurement of magnetic fields of all kinds, as well as the localization of stray fields for crack detection.

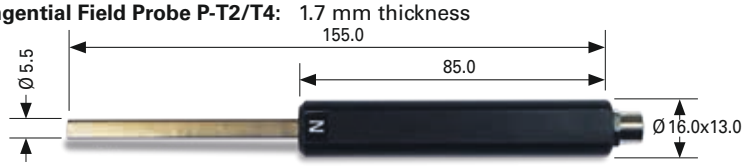
MEASURING PROBES

for Magnetic Field Meters MP-1000, MP-2000 and MP-5000

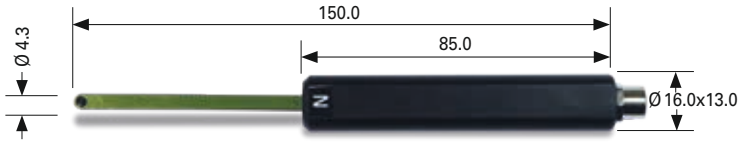
Axial Field Probe P-A2/A4:



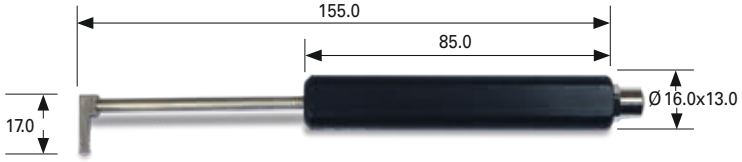
Tangential Field Probe P-T2/T4: 1.7 mm thickness



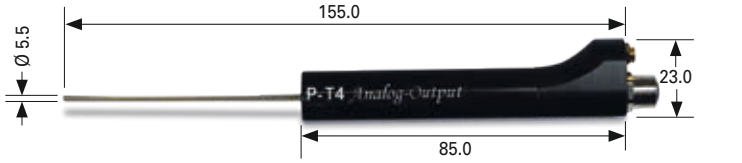
Flexible Reed Probe P-Z2/P-Z4: 0.9 mm thickness



Angular Axial Probe P-W2:



Tangential Field Probe P-T4A:



Checking with Precision Calibration Standard

It is not necessary to calibrate the device - it is pre-calibrated at the factory.

A precision calibration standard with 180 A/cm is available as an option, in order to be able to check the device.

If a deviation is detected when checking with the precision calibration standard, we advise returning the device for recalibration at the factory.

Axial Field Probe

Insert the sensor vertically into the red-bordered cut-out in the calibration standard and turn the device until the max. value is displayed. Compare the value displayed with the value of the calibration standard.

Tangential Field Probe

Insert the probe into the side slot on the calibration standard with the „N“ marking (north pole) upwards, until the probe latches into place at the front. Compare the value displayed with the value of the calibration standard.

For the Magnetic Field Meters **MP-1000**, **MP-2000** and **MP-5000** these axial field, tangential field and flexible reed probes are available.

All probes are of plug-in design.

Model MP-	1000	2000	5000
Axial Field Probe P-A2 Measuring range 0–20.000 A/cm	✔	✔	✔
Tangential Field Probe P-T2 Measuring range 0–20.000 A/cm	✔	✔	✔
Flexible Reed Probe P-Z2 Measuring range 0–20.000 A/cm	✔	✔	✔
Angular Axial Probe P-W2 Measuring range 0–20.000 A/cm	✔	✔	✔
Axial Field Probe P-A4 Measuring range 0–40.000 A/cm	–	✔	✔
Tangential Field Probe P-T4 Measuring range 0–40.000 A/cm	–	✔	✔
Flexible Reed Probe P-Z4 Measuring range 0–40.000 A/cm	–	✔	✔
Tangential Field Probe P-T4A Analog Output with BNC cable as output to an oscilloscope Measuring range 0–40.000 A/cm (picture see title page)	–	✔	–

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