



MENU

MEASURING INSTRUMENTS OF THE HIGHEST PRECISION

Made in Germany

All List-Magnetik instruments are manufactured in our headquarter in Germany and guarantee you the highest quality and reliability.

The many years of experience of the engineers in the design and manufacture of coating thickness measuring devices, magnetic field measuring devices, instruments for determining permeability and magnetic flux, who have been researching and developing technologically very advanced and increasingly innovative products for years, make the company a serious and reliable partner all over the world.

List-Magnetik is a member of the PCE Instruments SE.







This alliance allows all to continuously expand comprehensive expertise. Under the PCE Instruments umbrella, List-Magnetik's expertise is united with the proven competencies of companies like A & P Instruments and Drive Test GmbH. For the customers, this means a broader and deeper spectrum of industrial measurement technology, all from a single source.

Our commitment to the highest "Made in Germany" quality remains unchanged. The development and production of our products continue at our Leinfelden-Echterdingen location. Customers value List-Magnetik for its reliability, precision, and innovative strength.

Discover List-Magnetik's more comprehensive solutions for your demanding measurement tasks here!



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COATING THICKNESS MEASURING

With coating thickness gauges, you can quickly and easily measure the thickness of paint, resin, electroplated coatings, anodized aluminum, plastic, rubber or ceramic on all kinds of metals. Coatings made of chrome, cadmium, zinc, aluminum and many other substances on steel can also be precisely measured.

A layer thickness measuring device provides information about corrosion protection and the probable service life of a base material. In this way, the qualitative suitability of a product and its appearance can be guaranteed and conformity with a large number of international standards can be established.

MAGNETIC FIELD MEASUREMENT

Portable digital magnetic field measuring devices with microprocessor technology, compact and handy, enable a high-precision analysis of magnetic constant fields, alternating fields or pulse fields. They are used in the control of materials with residues of machining magnetism, in the medical field for the scattering of magnetic fields generated by magnetic resonance devices, in all situations in which magnetic fields are present.

Magnetic field measuring devices play a fundamental role in the preventive control of materials that have been magnetized or demagnetized for various reasons, and they are also important for mapping the magnetic field profiles in the field of magnetic resonance.

MAGNET PERMEABILITY METERS

Magnetic permeability is an indication of how strongly a material can be magnetized. It is useful in situations where no magnetism is actually desired, such as stainless steel.

Our instruments measure in the low permeability range up to μ r=5 and are mainly used in the production of components for the aerospace and electronics industries.

FERRITE CONTENT METERS

Steel must be corrosion and acid resistant to maintain its strength under stresses such as pressure, heat, or chemicals.

Therefore, welds must be checked to ensure that the ferrite content is high enough to withstand the heat. Too much ferrite can promote corrosion.







FERRITE-CHECK 240 / LM-FC240

For measuring the ferrite content in austenitic and duplex steels, with external probe

The ferrite content meter List-Magnetik FERRITE-CHECK 240 is an easy-to-use instrument with color display and external probe for measuring the ferrite content in austenitic and duplex steels according to the Basel standard DIN EN ISO 8249 using the magnetic induction method.

Ferrite content measurement is especially important for welded

duplex steels to know if the weld has sufficient ferrite content to ensure weld strength. If there is insufficient heat input or cooling in the weld area, the ferrite content may be too low.

The FERRITE-CHECK 240 is supplied with 3 calibration standards traceable to the NIST standard.

FERRITE 2000

The Ferrite Content Meter has a graphic LCD touch panel.

ISO calibrated

- according to the Basel standard DIN EN ISO 8249
- color LCD touch panel
- ferrite content in austenitic and duplex steels
- measurement of ferrite content in welds
- measurement units: Fe% and FN
- smallest measuring area is ø 2 mm
- data logger with 10,000 measurements, flexibly divisible
- fast and Continuous Ferrite Content Measurement
- wireless interface
- Windows PCs, Android and iOS apps





TECHNICAL SPECIFICATIONS

Applications

Probe

Measurement units Measuring range

Measurement method Smallest measuring area

Accuracy Resolution

Ambient temperature range

Display

Multilingual menu Data logger Statistics Interface

App for Android, iOS, Windows External control Power supply

Operating time Dimensions Weight

Measurement of ferrite content in austenitic and duplex steels FERRITE-2000, special probe for ferrite testing, externally connected

Fe% and FN 0.2 - 100 Fe% 0.2 - 140 FN

Single measurement or scanning

ø2mm 5 %

under 10: 0.01, over 10: 0.1

0 ... 50 °C

LCD color touch panel 320 x 480 pixels English, German, Italian, French, Spanish 10,000 measurements, flexibly divisible

count / maximum / minimum / average / standard deviation wireless interface for communication with Android, iOS and Windows free via Google Play Store, Apple App Store, List-Magnetik website

USB and SCPI communication interface

3 x 1.5 V AA Mignon.

External power supply can be connected via USB

approx. 25 hours with battery, unlimited with external power supply

150 x 85 x 35 mm 320 g with batteries









Subject to change without notice





FERROPRO COMPACT / LM-FERRO-PRO

Magnet permeability meter for measuring the relative magnetic permeability μr

The List-Magnetik Magnet Permeability Meter FerroPro compact can be used to determine the relative magnetic permeability µr of materials and components in the range between 1.000 and 5.000. Magnetic permeability is an indication of how strongly a material can be magnetized. The statement is useful where no magnetism is actu-

Applications include quality control of stainless steels, non-destructive testing of structural components, material selection for electron/ion physics and nuclear magnetic resonance equipment, and detection of material changes in highly stressed parts.

FerroPro compact has a graphical LCD touch panel with an innovative user interface and a resolution of 320x480 pixels.

ISO calibrated

according to ASTM A342 test methods 1 and 4, EN 60404-15 method 6 and VG 95578

ally desired, for example with stainless steel.

- relative magnetic permeability μr between 1 and 5
- convenient and robust
- >> count, maximum, minimum, average standard deviation
- graphical LCD touch panel
- innovative user interface
- data logger with 10,000 measurements, flexibly divisible
- flexible data logger
- » wireless interface
- Windows PCs, Android and iOS apps



APPLICATION





TECHNICAL SPECIFICATIONS

Measuring range

Probe

Accuracy at 20 °C

Resolution

Ambient temperature range

Display

Temperature range

Multilingual menu

Data logger Statistics

Interface

App for Android, iOS, Windows

External control

Power supply Operating time

Dimensions

Weight

ur = 1.000 to 5.000

FPC-5, interchangeable, with separately interchangeable cable

(μr - 1) x 5 %, against traceable calibration standards, can be readjusted

0.001

0 - 50 °C

LCD color touch panel 320x480 pixels

0 to 50 °C

English, French, German, Italian, Spanish 10,000 measurements, flexibly divisible

Count / Maximum / Minimum / Average / Standard deviation

wireless interface to communicate with Android, iOS and Windows

free via Google Play Store, Apple App Store, List-Magnetik website

via USB and SCPI communication interface

3x 1.5V AA Mignon. External power supply connectable via USB

Approximately 25 hours with battery, unlimited with external power source.

150 x 85 x 35 mm

320 g with batteries



Subject to change without notice





MEGA-CHECK DX / LM-MCDX-52D

Coating Thickness Gauge with dual function probe

The List-Magnetik MEGA-CHECK DX Coating Thickness Gauge can be connected to a wide range of specialized digital probes. Applications on very small apertures, thick layers and small measuring points are easily possible. Special functions such as scan measurement on rough surfaces and duplex measurement on galvanized and additionally coated steel complete the range of features.

A completely newly developed digital probe technology ensures very stable measurements thanks to a high sampling rate. The signals are digitized in the probe for absolutely interference-free and precise measurements. The result is highly accurate, reproducible coating thickness measurements.

ISO calibrated

- dual probe with sliding sleeve and prism
- on non-ferrous metal up to 2000 µm coating thickness
- iron and steel base up to 5000 µm
- standards: ISO 2178, ISO 2360, BS 5411, ASTM
- data logger with 10,000 measurement
- wireless interface for communication with Android, iOS and Windows





APPLICATION



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TECHNICAL SPECIFICATIONS

Application Depending on the selection of the probe, measurement of paint, lacquer, plastic and galvanic layers on steel,

measurement of insulating layers on non-ferrous metals with automatic recognition of the base material.

Standards ISO 2178, ISO 2360, BS 5411, ASTM

DX52-D dual function probe with sliding sleeve and prism Measuring probe

Measuring range on steel up to 5 mm (5000 µm) on NF metals up to 2 mm (2000 µm),

Min. measuring surface ø8 mm Min. radius of curvature convex 4 mm Min. radius of curvature concave 38 mm

Accuracy below 100 μ m ±1 μ m, 100-1000 μ m: ±1 %, 1000-2000 μ m: ±3 %, > 2000 μ m: ±5 %

Resolution 1-100 μ m: 0.1 μ m, 100-1000 μ m: 1 μ m, >1000 μ m: 10 μ m

Measuring units µm and mils Ambient temperature 0 ... 50 °C

LCD touch panel color 320 x 480 pixel Display Multilingual menu English, German, Italian, French, Spanish

Scan function for accurate measurement on rough or blasted surfaces

Duplex function for exact determination of single layer thickness when measuring insulating layers on galvanized steel parts

(zinc layer must be >60 µm)

Data logger 10,000 measurements, flexibly divisible

Count / Maximum / Minimum / Average / Standard deviation Statistics Calibration memory flexible number of calibration configurations storable

Interface wireless interface for communication with Android, iOS and Windows

App for Android, iOS, Windows free of charge via Google Play Store, Apple App Store, List-Magnetik website

External control via USB and SCPI communication interface

Power supply 3 x 1.5 V AA Mignon. External power supply can be connected via USB Operating time approx. 25 hours with battery, unlimited with external power supply

Dimensions 150 x 85 x 35 mm Weight 320 g with batteries



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MP-4000 / LM-MP4000-4T

Magnetic Field Meter MP-4000 with transversal field probe PM4-T

Experience a revolution in measurement technology with the List-Magnetik MP-4000, a professional magnetic field meter. This powerful device belongs to a new generation of magnetic field meters. It uses external digital axial and transverse field probes to precisely measure DC, AC, and pulsed magnetic fields.

It is ideally suited as a digital gaussmeter, magnetometer, or tesla-

meter for recording and analyzing magnetic field strength, intensity, and flux density. Its highly sensitive magnetic field sensors ensure reliable magnetic measurements.

This magnetic field measuring system can be used to measure weak geomagnetic fields and strong fields with field strengths of up to 40,000 A/cm.

ISO calibrated

- inclusive Transversal Field Probe PM4-T
- measurement of magnetic fields for direct, alternating, and pulsed fields
- measurements in A/cm, kA/m, Gauss, Tesla
- high resolution of magnetic fields
- accurate and interference-free
- Scan and pulse field
- data logger
- wireless interface
- Windows PCs, Android and iOS app



APPLICATION





TECHNICAL SPECIFICATIONS

Measuring units A/cm - kA/m - Gauss / Oersted - Tesla switchable

(1 A/cm = 0.1 kA/m = 1.256 Gauss = 1.256 Oersted = 0.1256 mT)

Probe transversal probes PM4-T

Measuring range direct field / DC 0 ... 40,000 A/cm Measuring range alternating field / AC 0 ... 40,000 A/cm

in homogeneous field ±1 A/cm to 50 A/cm,

±2 % of measured value from 50 A/cm,

±3 % of measured value from 20,000 A/cm

Resolution 0 ... 1000 A/cm: 0.1 A/cm, > 1000 A/cm: 1 A/cm

Frequency range AC Peak value memory at pulse time >= 0.1 msec

LCD touch panel color 320x480 pixel Display Multilingual menu navigation German, English, Italian, French, Spanish Data logger 10,000 measurements, flexibly divisible

Statistics count / maximum / minimum / average / standard deviation

2 Hz - 20 kHz

wireless interface for communication with Android, iOS and Windows Interface

free of charge via Google Play Store, Apple App Store, List-Magnetik website App for Android, iOS, Windows:

via USB and SCPI communication interface External control

3x 1.5 V AA Mignon. External power supply can be connected via USB Power supply Operating time approx. 25 hours with battery, unlimited with external power supply

Dimensions 150 x 85 x 35 mm Weight 320 g with batteries

Transversal Field Probe PM4-T

Hall Sensor distance 0.9 mm Probe thickness 1.8 mm Total length of the probe 127 mm Length of the probe handle 65 mm Width of the probe tube 5.6 mm

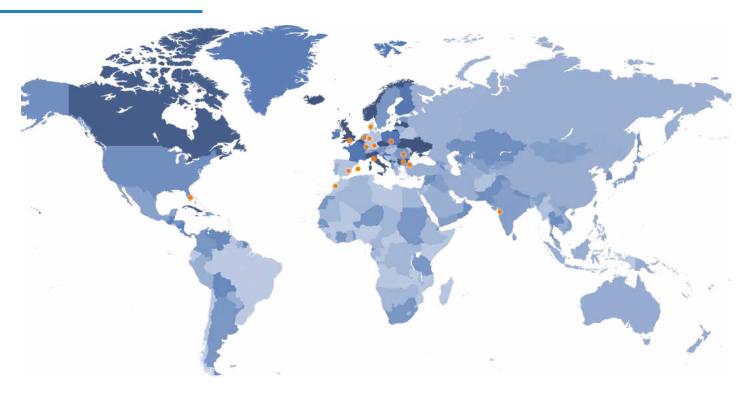


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