

Teslameter M-Test LL

Measuring device used to measure residual magnetism



- > Precisely and reliably measure residual magnetism on ferromagnetic materials
- > Quickly find residual magnetism
- > Reproducible measuring results by automatically saving maximum values
- > Defined measuring distance of 0.5 mm from the echo probe to the measuring surface
- > Measures static and alternating magnetic fields
- > Ability to switch between measurement units: A/cm, Gauss, mT
- > Wear-resistant test probe

Residual magnetism

Measure precisely,
quickly and reliably

The M-Test LL was developed specifically to reliably find and to easily and reproducibly measure residual magnetism. Thanks to the fast-responding LED on the tip of the probe, even fine-poled fields can be reliably detected on the component. Moreover, the relevant maximum value of the north and south pole are automatically stored and displayed for logging.

Thanks to its high-quality and robust design, the M-Test LL can be used in a variety of applications, both in the field as well as in the lab, and it is used daily in the automotive industry, in industrial production, mechanical engineering and other sectors.

Technical data*

| Measuring unit (switchable) | A/cm | Gauss | mT |
|---------------------------------------|--|-----------------------|---------------------|
| Range in magnetic DC field | +/-160 A/cm | +/- 200 Gauss | +/- 20 mT |
| Resolution | 0.1 A/cm | 0.1 Gauss | 0.01 mT |
| LED threshold | approx. +/- 1.7 A/cm | approx. +/- 2.1 Gauss | approx. +/- 0.21 mT |
| Analog output | +/- 1.4V of full scale | | |
| Accuracy in homogenous DC field | whole measuring range 1.5% , +/- 1 Digit | | |
| Frequency range in AC field | approx. 15 Hz to approx. 5 kHz | | |
| Sensor type M-Test LLP 0.5 | transversally mounted Hall effect sensor, temperature compensated, no drift | | |
| Measuring distance | 0.5 mm distance from Hall effect sensor to probe surface | | |
| Polarity indication on LED | red = north pole, green = south pole, orange = measuring range exceeded or alternating field | | |
| Automatic switch-off | approx. 15 min on battery | | |
| Battery type/charging time | Lithium Polymer battery, 2 cells/ approx. 6-7 h charging time | | |
| Battery life | approx. 7 h | | |
| Probe cable | Oil resistant spiral cable, stretched 2 m | | |
| Dimensions of indication device (mm) | H | 166 | |
| | D | 34 | |
| | W | 106 | |
| Dimensions of probe (mm) | H | 16 | |
| | D | 15 | |
| | L | 161 | |
| Dimensions of sensor (mm) | H | 9 | |
| | D | 3 | |
| | L | 71 | |
| Weight (probe and indicator)/shipping | 500 g/1000 g | | |

Delivery includes

- > Probe – wear-resistant
- > Indicating device
- > Operating manual
- > Spiral cable to connect the probe
- > USB cable and charger
- > Soft storage case

Options**

- > Calibration certificate based on EN ISO 9001 and 10012
- > USB interface including software
- > Adapter for a measuring distance of 2.0 mm
- > Reference magnet
- > Mini Zero Gauss chamber
- > Hard case
- > Zero Gauss chamber 17" or 21" for shielding from geomagnetic field.

* All informations are without guarantee

** More information can be found on the brochure «Accessories for M-Test».

