

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	<ul style="list-style-type: none"> > Probe – wear-resistant > Indicating device > Operating manual > Spiral cable to connect the probe > USB cable and charger > Soft storage case 		
Options**	<ul style="list-style-type: none"> > 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».

