

## M-Test MK-4



- > Universal measuring device for measurements in the air gap or on hard-to-reach areas with < 1 mm thin tangential probe
- > Measures magnetic flux density of permanent magnets escaping from the surface
- > two switchable units: kA/m, mT
- > Magnetic fields measurable up to +/- 2 Tesla
- > automatic switching between direct and alternating magnetic fields

**Universal**  
Measuring device  
used to measure  
magnetic fields

Static or dynamic magnetic fields are detected and measured precisely with the M-Test MK4. The < 1 mm thick tangential probe allows accurate, selective measurements at hard-to-reach places, in air gaps or on surfaces. The M-Test MK4 is especially suited for measuring permanent magnets or ferromagnetic small parts.

The immediately responding color LED directly indicates magnetism when the probe travels over the surface of the part. The "Peak Hold" function is controlled with the push button on the probe body; it makes it possible to easily find and define the places with the highest field strength for each polarity.

**Technical data\***

| Type                                  |   | M-Test MK4                                                                                                                                                            |
|---------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring range, DC field             |   | -19.99 to +19.99 mT resp. -15.9 to +15.9 kA/m<br>-199.9 to +199.9 mT resp. -159 to +159 kA/m<br>-1999 to +1999 mT resp. -1590 to +1590 kA/m<br>(mT – kA/m selectable) |
| Measuring range, AC field             |   | 14.14 mT resp. 11.25 kA/m<br>141.4 mT resp. 112.5 kA/m<br>1414 mT resp. 1125 kA/m True-RMS<br>frequency range 14–1000 Hz sine, triangle, rectangle                    |
| Accuracy in homogenous magnetic field |   | +/- 1.5 % in low range; +/- 1 digit at 23 °C<br>+/- 0.6 % in low range; +/- 1 digit at 23 °C<br>+/- 0.6 % in high range; +/- 1 digit at 23 °C                         |
| Zero-offset (after 1 min)             |   | +/- 0.05 mT; +/-0.04 kA/m                                                                                                                                             |
| LED polarity display on the probe     |   | red = north pole, green = south pole, orange = AC field                                                                                                               |
| Polarity display on the gauge         |   | ( ) = north pole, ( - ) = south pole                                                                                                                                  |
| Threshold of polarity display (LED)   |   | +/- 0.5 mT; +/- 0.4 kA/m                                                                                                                                              |
| Automatic OFF with battery power      |   | ~4 min                                                                                                                                                                |
| Battery                               |   | 9V, type 6 LF 22; AM6. endurance ~20h                                                                                                                                 |
| Length of probe cable                 |   | 1.2m                                                                                                                                                                  |
| Dimensions measuring device (mm)      | W | 84                                                                                                                                                                    |
|                                       | H | 158                                                                                                                                                                   |
|                                       | D | 30                                                                                                                                                                    |
| Dimensions of probe (mm)              | W | 18                                                                                                                                                                    |
|                                       | H | 22                                                                                                                                                                    |
|                                       | L | 170                                                                                                                                                                   |
| Dimensions sensor (mm)                | W | 8                                                                                                                                                                     |
|                                       | H | <1                                                                                                                                                                    |
|                                       | L | 70                                                                                                                                                                    |
| Weight, including battery             |   | 300g                                                                                                                                                                  |

**Delivery includes**

- > Indicating device
- > Operating manual
- > Battery
- > Soft storage case

**Options\*\***

- > Calibration certificate according to EN ISO 9001 and 10012
- > Reference magnet
- > Mini Zero Gauss Chamber
- > Hard case
- > Power adapter 9V DC, power stabilized
- > 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»