

## Product name : LZ-642 Teslameter with transversal probe

### PERFORMANCE PARAMETERS

|                         |                                   |
|-------------------------|-----------------------------------|
| Length                  | 175 [mm]                          |
| Width                   | 90 [mm]                           |
| Height                  | 40 [mm]                           |
| accessory               | transversal (flat) probe          |
| measured magnetic field | magnets, DC and AC magnetic field |
| Measure range           | 0-3000 mT                         |
| Power supply            | Battery AA x4                     |

The LZ-642 teslameter (otherwise known as a teslameter, gaussmeter or hallotron meter) is a small, handy and practical device for measuring the intensity of the permanent magnetic field produced by permanent magnets as well as by direct current (DC) and the alternating magnetic field produced by alternating current (AC).

A flat probe is included:

- transverse (flat) probe with dimensions (L x W x D) 50 x 4.5 x 1.35 mm for magnetic field measurements in a slot or on a magnetic surface



Depending on the intensity of the magnetic field to be measured, the device has two operating ranges. Each meter comes with: a one-year guarantee, a 'CE' declaration of conformity, a calibration certificate and an operating manual. The parameters of the device are shown below:

|                                     |                                    |  |
|-------------------------------------|------------------------------------|--|
| Operating range for permanent field | 0-30 mT, 0-300 mT, 0-3000 mT, auto |  |
| Operating range for variable field  | 0-30 mT, 0-300 mT                  |  |
| Resolution max.                     | 0,01 mT                            |  |
| Displayed units                     | mT, Gs, kA/m, Oe,                  |  |
| Measurement                         | +/-2 % + 0,1% scope                |  |

|                                       |  |  |
|---------------------------------------|--|--|
| error in the permanent field          |  |  |
| Measurement error in a variable field | <b>+/-5% measurement values+0,2% scope</b>                     |  |
| Measuring mode                        | <b>in a constant or alternating magnetic field to 10 [kHz]</b> |  |
| Measurement frequency                 | <b>every 0,4 sec.</b>  |  |
| Polarisation display                  | <b>N-S / +, -</b>  |  |
| Working temperature                   | <b>from 15°C to +35°C</b>                                      |  |
| Humidity                              | <b>35 - 75 %</b>   |  |
| Temperature coefficient               | <b>+/- 0.6 %/measurement (outside the range 15-35°C)</b>       |  |
| Power supply                          | <b>battery AA 1,5V x 4</b>                                     |  |
| Display                               | <b>LCD 2,5 inch</b>  |  |

Additional information:

- 1.35 mm thick transverse probe (allows measurement in very small gaps)
- 150 cm probe cable length
- very easy and quick calibration of the teslometer
- option to store the maximum measurement value
- up to 50 hours of continuous operation
- automatic switch off function or after a set time.