

MAGNETOMETER / MAGNETIC FIELD DETECTOR

LM-MP6000-EMF



- » **Highly sensitive fluxgate sensor**
- » **Complies with IATA 953 / UN 2807**
- » **Transverse magnetic field measurement**
- » **Frequency display & Fourier analysis**
- » **Internal memory for 10,000 measurements**
- » **Wireless data transfer - Color LCD touch panel**

With the List-Magnetik LM-MP6000-EMF EMF Magnetometer / Magnetic Field Detector (fluxgate magnetometer), you can measure very weak DC and AC magnetic fields in the range of 0-400 μ T (microtesla) or 0-4 G (gauss) or 0-300 A/m. The device works with a fluxgate measuring probe that can measure magnetic fields in the transverse direction.

The perfect solution for the requirements of IATA953 / UN2807

A special area of application is the detection of magnetic fields in parcels or luggage without opening the luggage. IATA packaging regulation 953 contains specifications for packaging for air transport, which describes limit values and labelling requirements. UN 2807, Magnetized Substances, is a dangerous goods regulation that also covers magnetism. Items with a magnetic field strength of less than 0.159 A/m (2 mG, 200 μ T) at a distance of 2.1 m (7 ft) are considered approved for air transport. Items with a magnetic field strength of less than 0.418 A/m (5.25 mG, 525 μ T) at a distance of 4.6 m (15 ft) are subject to labelling requirements. More strongly magnetic items cannot be transported by air freight.

**Highly sensitive sensor for weak EMF magnetic fields **

A fluxgate sensor is highly sensitive and is used in research and development for the precise measurement of magnetic fields.

Specification

Magnetic field AC

Measurement range up to 0 ... 0,4 mT

Resolution 0,01 μ T

Accuracy $\pm 2\%$ v.Mw.

Frequency range 1 ... 2000 Hz

Measurement range from 0 g ... emptyArrayIsGiven

Measurement range up to 0 ... 4 g

Measurement range up to 0 ... 4 g

Resolution 0,1 mG

Resolution 0,1 mG

Accuracy $\pm 2\%$ v.Mw.

Accuracy $\pm 2\%$ v.Mw.

Magnetic field DC

Measurement range up to 0 ... 0,4 mT

Resolution 0,01 μ T

Accuracy $\pm 2\%$ v.Mw.

Measurement range from 0 g ... emptyArrayIsGiven

Measurement range up to 0 ... 4 g

Measurement range up to 0 ... 4 g

Resolution 0,1 mG

Resolution 0,1 mG

Accuracy $\pm 2\%$ v.Mw.

Accuracy $\pm 2\%$ v.Mw.

Magnetic field strength

Measurement range up to 0 ... 300 A/m

Resolution 0,01 A/m

Accuracy $\pm 2\%$ v.Mw.

General technical data

Measuring functions Quantity, MIN, MAX, Average value, Standard deviation

Display type LCD touchscreen

Display size 3,55 Inch

Display resolution 320x480

Storage medium Internal memory

Storage capacity 10000 Measurements

Interface USB-C, SCPI

Menu language German, English (GB), English, Italian, French, Spanish

Protection class (device) IP64

Power supply 5V DC (or battery)

(Rechargeable) battery 3 x 1,5 V AA battery , Mignon

Capacity 3000 mAh

Operating conditions 0 ... 50 °C , 10 ... 90 % RH

Storage conditions 0 ... 50 °C , 10 ... 90 % RH

Dimensions (L x W x H) 150 x 85 x 35 mm

Weight 320 g