

MAGNETIC FIELD METER

PCE-MFM 2500



- » **Measuring range: 0 ... 2500 mT**
- » **LED display for magnetic field polarity (red for north, green for south)**
- » **LCD display with backlight**
- » **Measuring function - HOLD**
- » **Zero-point adjustment - ZERO**
- » **Units: mT, Gs**
- » **Compact, handy design**

The Magnetic strength meter is a portable measuring device for the precise detection of magnetic field strengths and for determining magnetic polarity. The device works with an integrated Hall sensor that reliably measures magnetic flux density and requires no wear-prone replacement parts. The display is shown on a backlit LCD display, which indicates the magnetic field strength in millitesla (mT); switching to gauss (Gs) is also provided. In addition, an LED display informs the user of the magnetic field polarity (red for north pole, green for south pole), ensuring clear identification of the field direction.

The Magnetic field meter has functions such as HOLD for data storage and ZERO for zero-point adjustment, supporting stable and reproducible measurements. The measuring range is typically 0 ... 2500 mT, with an accuracy of $\pm(5\% \text{ of reading} + 0.05 \text{ mT})$. Power is supplied by batteries, allowing mobile use.

The Magnetic field meter is used in industrial measurement technology, in research and development, and in quality assurance. Typical applications include measuring magnetic fields on permanent magnets, electric motors, transformers and electromagnetic components. In addition, the Magnetic field meter is used in teaching and in experimental setups to demonstrate and analyze electromagnetic relationships in practice.

Specification

Magnetic field DC

Measuring range 0 ... 2500 mT

Resolution 0,01 mT

Accuracy $\pm(5\%$ of the mean value + 0.05 mT)

General technical data

Measuring functions HOLD

Units mT, Gs

Display type LCD with backlight

Display size 1 in

Standard(s) IEC 610601-1

Menu language English, English (GB)

Protection class (device) IP20

Power supply batteries

(Rechargeable) battery 2 x 1,5 V AAA battery , Alkali-manganese

Capacity 1270 mAh

Operating conditions 0 ... 50 °C , 20 ... 85 % RH

Storage conditions 0 ... 50 °C , 20 ... 85 % RH

Dimensions (L x W x H) 180 x 26 x 17 mm

Weight 37,5 g