ELECTROMAGNETIC RADIATION DETECTOR

PCE-MFM 3000

- **Measurement range: 0 ... 30000 G / 0 ... 3000 mT**
- **Accuracy: ± 5%; + 20 digits (static) / + 10 digits (dynamic)**
- **Resolution: 0.1 G / 0.01 mT**
- **Detects both static (DC) permanent magnetic and dynamic (AC) electromagnetic**
- **fields (EMFs)**
- **Displays measurement results in gauss (G) or milli Tesla (mT)**
- **Comes with an external sensor**
- **Features an RS-232 port for downloading data to PC**
- **Max, min, data hold and auto shutdown power-saving functionality**
- **Ideal tool for checking magnetic valves, relays and air-core transformers**
- **Useful for assessing permanent magnets and rare earth magnets made of**

PCE-MFM 3000 is a handheld electromagnetic radiation detector or gauss meter that detects both static (DC) permanent magnet (rare earth) magnetic and dynamic (AC) electromagnetic fields (EMFs) and displays measurement results in gauss (G) or milli Tesla (mT). This portable magnetic field measuring device comes with an external handheld sensor and features an RS-232 port for downloading data to a PC.

Meter can be calibrated by an ISO lab to verify accuracy, see accessories tab for information.

Specification

Magnetic field AC	
Measuring range	0 ... 150 mT
Resolution	0,01 mT
Accuracy	±5% v. Mw. +20 digits (at 23 ±5°C)
Frequency range	50 ... 60 Hz
Magnetic field AC	
Measuring range	0 ... 1500 mT
Resolution	0,1
Accuracy	±5% v. Mw. +20 digits (at 23 ±5°C)
Magnetic field AC	
Measuring range	0 ... 1500 g
Resolution	0,1 g
Accuracy	±5% v. Mw. +20 digits (at 23 ±5°C)
Magnetic field AC	
Measuring range	0 ... 15000 g
Resolution	1 g
Accuracy	±5% v. Mw. +20 digits (at 23 ±5°C)
Magnetic field DC	
Measuring range	0 ... 300 mT
Resolution	0,01 mT
Accuracy	±5% v. Mw. +10 digits (at 23 ±5°C)
Magnetic field DC	
Measuring range	0 ... 3000 mT
Resolution	0,1 mT
Accuracy	±5% v. Mw. +10 digits (at 23 ±5°C)
Magnetic field DC	
Measuring range	0 ... 3000 g
Resolution	0,1 g
Accuracy	±5% v. Mw. +10 digits (at 23 ±5°C)
Magnetic field DC	
Measuring range	0 ... 30000 g
Resolution	1 g
Accuracy	±5% v. Mw. +10 digits (at 23 ±5°C)

General technical data	
Measuring functions	MIN, MAX, HOLD
Measuring direction	Uniaxial
Frequency	50 ... 60 Hz
Display type	LCD
Measuring rate	1 Hz
Sensor	Hall sensor
Dimensions	Probe: 195 x 25 x 19 mm
Menu language	English, English (GB)
Protection class (device)	IP20
(Rechargeable) battery	1 x 9 V 9V block , Alkali-manganese
Capacity	640 mAh
Operating conditions	0 ... 50 °C , 0 ... 85 % RH
Storage conditions	0 ... 50 °C , 0 ... 85 % RH
Dimensions (L x W x H)	198 x 68 x 30 mm
Weight	275 g