EMF MEASURING DEVICE

PCE-EMF 10



- **Electric field strength: 1 ... 1999 V/m**
- **Magnetic field strength: 0.01 ... 99.99 µT**
- **Power flux density: 0.1 ... 999.9 mW/m²**
- **Bandwidth: 40 Hz ... 10 GHz**
- **Measurement function: Hold, max value, average value**
- **Alarm: audible, visual, vibration**
- **Real-time curve display**

The EMF measuring device is a 3-in-1 measuring device for measuring electric field strength, magnetic field strength, and power flux density. The EMF measuring device measures electric field strength in the range of 1 ... 1999 V/m with a resolution of 1 V/m. Magnetic field strength can be detected in the ranges of 0.1 ... 999.9 mG with a resolution of 0.1 mG as well as 0.01 ... 99.99 µT with a resolution of 0.01 µT. Power flux density is measured in the range of 0.1 ... 999.9 mW/m² with a resolution of 0.1 mW/m². Accuracy is ±5% for all measured values. The bandwidth ranges from 40 Hz ... 10 GHz. Magnetic field measurement is performed on three axes.

The EMF measuring device features a 2.4-inch TFT color display and four switchable display modes. In the three measuring modes for power flux density, electric field strength, and magnetic field strength, the real-time value, historical average value, and maximum value are each displayed graphically along with the corresponding measurement curve. The overview mode shows all three measuring ranges simultaneously with their respective alarm states. The hold function can be used to retain measured values. In addition, the EMF measuring device allows switching the magnetic units between µT and mG.

If a limit value is exceeded, the EMF measuring device warns audibly, visually, and by vibration. Automatic shutdown occurs after 15 minutes and can be deactivated.

Specification

Electric field strength	
Measuring range	1 ... 1999 mV/m
Resolution	1 mV/m
Accuracy	±5% f.s.
Magnetic field strength	
Measuring range	0,1 ... 999,9 mG
Resolution	0,1 mG
Accuracy	±5% f.s.
Magnetic field strength	
Measuring range	0,01 ... 99,99 µT
Resolution	0,01 µT
Accuracy	±5% f.s.
Power flux density	
Measuring range	0,1 ... 999,9 mW/m².
Resolution	0,1 mW/m².
Accuracy	±5% f.s.

General technical data	
Measuring functions	HOLD, Average value, MAX
Display Typ	TFT-LCD-Display
Display size	2,4 Inch
Interface	USB-C
Sensor	broadband RF
Automatic power-off	15 min.
Bandwidth	40 ... 10000000000 Hz
Alarm	optical, Acoustic, Vibration
Alarm modes	Alarm ranges, see instructions
Menu language	English (US), English (GB)
Protection class (device)	IP20
Power supply	5 V DC
Battery/battery	1 x 3,7 V BF103450 , lithium
Battery capacity	1800 mAh
Performance	6,66 Wh
Operating conditions	-10 ... 45 °C , 0 ... 80 %RH
Storage conditions	-10 ... 45 °C , 0 ... 80 %RH
Dimensions (L x W x H)	127 x 65 x 32 mm
Weight	163 g