# 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, maximum value, average value**
- **Alarm: audible, visual, vibration**
- **Real-time curve display**

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

The EMF measuring device has a 2.4-inch TFT colour display and four switchable display modes. In the three measurement modes for power flux density, electric field strength and magnetic field strength, the real-time value, historical average value and maximum value are shown, together with the corresponding measured value trend as a graph. The overview mode displays all three measurement ranges simultaneously with their respective alarm states. The hold function allows measured values to be retained. 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 switch-off occurs after 15 minutes and can be deactivated.

## Specification

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| **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. |

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|---|---|
| **General technical data** | |
| Measuring functions | HOLD, Average value, MAX |
| Display type | 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, English (GB) |
| Protection class (device) | IP20 |
| Power supply | 5 V DC |
| (Rechargeable) battery | 1 x 3,7 V BF103450 , lithium |
| 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 |