GAUSS METER

PCE-EMF 40



- **Three different measuring function**
- **Many different units can be set**
- **Alarm when limit value is exceeded**
- **Automatic shutdown**
- **With three-axis measurement**
- **For low frequencies and high frequencies**

With this gauss meter it is possible to measure magnetic fields up to 2000 mG directly. At the same time, the gauss meter shows the strength of the magnetic field numerically using an X, Y and Z axis. Another measuring function of the gauss meter is the electromagnetic field strength measurement. With this measuring function in the gauss meter, the electromagnetic field strength on supply lines can be determined at a frequency of 50/60 Hz. It is also possible to carry out measurements in the high frequency range with the gauss meter. Thus, measurements can be carried out with the gauss meter on, for example, a WLAN router or a mobile phone. Because of its many measuring functions, the gauss meter is a compact and multifunctional measuring device.
In addition to the numerical display on the gauss meter, a graphical progression of the last 20 measured values is also displayed. The measured value is also displayed as a bar diagram by the gauss meter. This bar chart on the gauss meter is divided into three traffic light colors. As soon as the measured value exceeds a fixed value, so that the bar chart on the gauss meter has reached the red area, an acoustic alarm is activated. This alarm on the gauss meter switches off automatically as soon as the measured value is below the fixed limit threshold.
All three measurement modes can be read off simultaneously on the 2.4" TFT display of the gauss meter.

Specification

Low-frequency magnetic field	
Measuring range	20 ... 200 µT
Resolution	0,01 µT
Accuracy	±12% +5 digits
Bandwidth	50 ... 60 Hz
Low-frequency magnetic field	
Measuring range	200 ... 2000 mG
Resolution	0,1 mG
Accuracy	±12% +5 digits
Bandwidth	50 ... 60 Hz
Low-frequency electromagnetic field	
Measuring range	50 ... 2000 V/m
Resolution	1 V/m
Accuracy	±7% +20 Digits
Bandwidth	50 ... 60 Hz
High-frequency electromagnetic field	
Measuring range	30 mV/m ... 11 V/m
Resolution	0,01 mV/m
Accuracy	1.0 dB at 1 V/m and 900 MHz, >1 V/m for reference only
Bandwidth	50 ... 3500 MHz
High-frequency electromagnetic field	
Measuring range	0,02 ... 32 µW/cm²
Resolution	0,01 µW/cm²
Accuracy	1.0 dB at 1 V/m and 900 MHz, >1 V/m for reference only
Bandwidth	50 ... 3500 MHz
High-frequency electromagnetic field	
Measuring range	2,3 µw/m² ... 320,9 mW/m²
Resolution	0,1 µw/m²
Accuracy	1.0 dB at 1 V/m and 900 MHz, >1 V/m for reference only
Bandwidth	50 ... 3500 MHz
High-frequency electromagnetic field	
Measuring range	0,07 ... 29,1 mA/m
Resolution	0,01 mA/m
Accuracy	1.0 dB at 1 V/m and 900 MHz, >1 V/m for reference only
Bandwidth	50 ... 3500 MHz

General technical data	
Measuring functions	MIN, MAX, HOLD
Display type	LCD with backlight
Display size	2,4 Inch
Measuring rate	1 Hz
Operating time	4,5 h
Automatic power-off	10 min
Alarm	Acoustic
Menu language	English, English (GB)
Protection class (device)	IP20
(Rechargeable) battery	3 x 1,5 V AAA battery , Alkali-manganese
Capacity	1200 mAh
Operating conditions	0 ... 50 °C , 0 ... 80 % RH
Storage conditions	0 ... 50 °C , 0 ... 80 % RH
Dimensions (L x W x H)	107 x 60 x 25 mm
Weight	100 g