

## **Environmental Meter PCE-EMF 40**





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# Gauss meterwith 2.4'' display / Background lighting adjustable in four levels /Measuring range up to 2000V / m / 3-axis measurement / For mobile and fast use

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. Switching between the individual measurement modes on the gauss meter is therefore not necessary. The background lighting of the gauss meter can be adjusted in 4 levels. Thus, the display of the gauss meter can be adapted to the most varied of environmental conditions at the touch of a button.

- 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

Subject to change



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## Specifications

Low frequency magneticfield Unit µT Measuringrange

### More information

### More product info **i** ) Similar products F

Measuringrange	Resolution	Accuracy
20.00 200.0 µT	0.01μT, 0.1 μT	±12% + 5 digits at50/60 Hz
Unit mG		
Measuringrange	Resolution	Accuracy
200.0 2000 mG	0.1mG, 1 mG	±12% + 5 digits at50/60 Hz
Low frequency electromagneticfield		
Unit V / m		
Measuringrange	Resolution	Accuracy
50V/ m 2000V / m	1V/ m	±7% + 20 digits at50/60 Hz
High frequency electromagneticfield		
Unit mV / m, V /m		
Measuringrange	Resolution	Accuracy
30.0mV / m 11.00V / m	0.01,0.1 mV / m	1.0dB at 1V / m
	0.01V/ m	and900 MHz, >1V / m are only used for reference
Unit µW / cm²		
Measuringrange	Resolution	
0.02 32.0 μW / cm <sup>2</sup>	0.01,0.1 μW / cm <sup>2</sup>	
Unit $\mu$ W / m <sup>2</sup> , mW /m <sup>2</sup>		
Measuringrange	Resolution	
2.3μW / m² 320.9 μW / m²	0.1,1 μW / m²	
	0.1mW / m²	
Unit mA / m		
Measuringrange	Resolution	
0.07 29.1-mA / m	0.01,0.1-mA / m	

Resolution

Accuracy

ambient temperature of 23  $\pm$  5°C / 73.4  $\pm$ 

All specifications refer to an

#### 9°F,

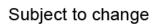
an ambient humidity of 25 ... 75% RH andan RF field strength of less than3V / m and 30 MHz. High frequency: 50 Bandwidth MHz ... 3.5GHz Low frequency: 50/60Hz Numberof sensors Magnetic field: 3 Electromagnetic field:1 Measuringrate 1Hz

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Displaywhen the measured value is exceeded	""	
Storage	MIN / MAX memory	
Display	2.4" TFT	
Powersupply	3x 1.5V AAA batteries	
Powerconsumption	Approx. 24 38-mA	
Automaticshutdown	After 10 minutes	
	Function can be	
	switchedoff	
Operatingconditions	0 50°C / 32 122°F, < 80% RH	
Dimensions	107 x 60 x 25 mm / 4.2 x 2.4 x 1in	
Weight	Approx. 106 g / < 1 lb (withoutbatteries)	





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