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

Specifications

Low frequency magneticfield

Unit µT

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 0.01V/ m	1.0dB at 1V / m and900 MHz, >1V / m are only used for reference

Unit µW / cm^2

Measuringrange	Resolution
0.02... 32.0 µW / cm^2	0.01,0.1 µW / cm^2

Unit µW / m^2, mW /m^2

Measuringrange	Resolution
2.3µW / m^2 ... 320.9 µW / m^2	0.1,1 µW / m^2 0.1mW / m^2

Unit mA / m

Measuringrange	Resolution
0.07... 29.1-mA / m	0.01,0.1-mA / m

All specifications refer to an ambienttemperature of 23 ± 5°C / 73.4 ± 9°F, an ambient humidity of 25 ... 75% RH andan RF field strength of less than3V / m and 30 MHz.

Bandwidth	High frequency: 50 MHz ... 3.5GHz Low frequency: 50/60Hz
Numberof sensors	Magnetic field: 3 Electromagnetic field:1
Measuringrate	1Hz

More information

More product info

Similar products

Subject to change

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)