GAUSS METER

PCE-G28



- **Measurement range: 0 ... 20000 mG / 0 ... 2000 µT**
- **Accuracy: ± 4% + 3 digits / ± 5% + 3 digits / ± 10% + 5 digits**
- **Resolution: 0.1 mG / 0.01 µT**
- **Detects electromagnetic fields (EMFs) on three axes (X, Y, Z direction)**
- **Displays measurement results in milliGauss (mG) or microTesla (µT)**
- **Comes with an external 3-axis electromagnetic sensor**
- **Data hold functionality**
- **Ideal tool for checking transformers and measuring EMFs generated by power lines, computer monitors, electric motors and installations**
- **Meets IEC 801-1 (EN 50081-1) / IEC 204 (EN 60204) standards**
- **Measures EMFs through casings, coverings and housings, eliminating the need to dismantle parts for inspection**

The gauss meter has a 3-axis measuring probe for detecting electromagnetic radiation. The gauss meter is therefore just as suitable for measuring transformers as it is for assessing magnetic fields generated by computer monitors, televisions and industrial equipment (magnetic separators, electric motors, inert gas welding equipment, etc.).

The gauss meter fulfils the European specifications (European Union Electromagnetic Compatibility Directive IEC 801-1 (EN 50081-1) as well as the specifications for laboratory and measurement technology IEC 204 (EN 60204)). The triaxial magnetic field probe saves you having to make conversions for the individual axes. Thanks to its special features, the small, compact gauss meter is ideal for use in industrial environments as well as in the laboratory. Simple, fast and accurate.

About the electromagnetic field
Electromagnetic fields are generated during the operation of

Specification

Magnetic field strength	
Measuring range	0 ... 20 µT
Resolution	0,01 µT
Accuracy	±4% +3 Digits / 50 - 60 Hz und < 3 V/m (RF)
Magnetic field strength	
Measuring range	0 ... 200 µT
Resolution	0,1 µT
Accuracy	±5% +3 Digits / 50 - 60 Hz und < 3 V/m (RF)
Magnetic field strength	
Measuring range	0 ... 2000 µT
Resolution	1 µT
Accuracy	±10% +5 Digits / 50 - 60 Hz und < 3 V/m (RF)
Magnetic field strength	
Measuring range	0 ... 200 mGs
Resolution	0,1 mGs
Accuracy	±4% +3 Digits / 50 - 60 Hz und < 3 V/m (RF)
Magnetic field strength	
Measuring range	0 ... 2000 mGs
Resolution	1 mGs
Accuracy	±5% +3 Digits / 50 - 60 Hz und < 3 V/m (RF)
Magnetic field strength	
Measuring range	0 ... 20000 mGs
Resolution	10 mGs
Accuracy	±10% +5 Digits / 50 - 60 Hz und < 3 V/m (RF)

electrical devices and systems. Depending on the frequency, they have different effects on the human organism. The consequences can range from discomfort and nerve stimulation to internal burns. It is therefore necessary to determine the risk to employees from electromagnetic fields on the basis of occupational health and safety legislation and company regulations. Basically, two areas of exposure, known as exposure areas 1 and 2, are defined:
Exposure area 1 includes all controlled areas, e.g.

General technical data	
Frequency	30 ... 300 Hz
Display type	LCD
Dimensions	Probe 225 x 75 x 55 mm
Protection class (device)	IP20
(Rechargeable) battery	1 x 9 V 9V block , Alkali-manganese
Capacity	640 mAh
Operating conditions	0 ... 50 °C , 0 ... 85 % RH
Storage conditions	0 ... 50 °C , 0 ... 85 % RH
Dimensions (L x W x H)	195 x 68 x 30 mm
Weight	470 g

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