

- Digital precision Gaussmeter for determining the magnetic field strength of permanent magnets and systems
- High accuracy of $\pm 0.05\%$
- Measurement of magnetizing pulses up to 30 kHz
- Digital filter for AC-measurement with high attenuation
- Capacitive touch-screen for user-friendly measurement
- Automatic temperature compensation
- Application in laboratories and in production lines

Features

- Multicolour touch TFT 800x480px
- 4 measuring ranges and Auto range
- DC, AC to 30kHz (TRUE RMS)
- Automatic probe detection
- Display in Gauss, Tesla, Oersted or A/m
- Bar graph visualization**
- Fast Peak hold detection
- Digital band filter for pulse measurement
- Functions: Max/Min hold, Alarm, Relative, Auto Zero, Data storage, Data transfer to PC via USB



Find out more and order the Gaussmeter online at our webshop:

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Measuring Technology for Hard Magnetic Materials

Gaussmeter BGM 201

Gaussmeter BGM 201

Operating principle

This Gaussmeter enables user-friendly measurement of magnetic fields by applying the Hall measuring principle. The Hall voltage which is generated in a Hall sensor is proportional to the adjacent magnetic field.

The attraction of the BGM 201 is the intuitive touch-screen operation and individually adjustable screen setups. The display on a multicolour touch-screen with backlighting can be set to Gauss, Tesla, Oersted or A/m. The corrected analogue output indicates the exact display value. Field and temperature measurements are also recorded via the probe input. Readings for all functions can be made either from the display or via software.

This measuring technology is employed for example in the testing of magnetic materials in sensor technology and automotive engineering. It is integrated into continuous quality control during production and in the manufacture of DC motors.

Technical Data

Measuring mode	Hall sensor technology
Measuring range	4 mT, 40 mT, 400 mT, 4 T, AUTO
Frequency	DC, AC to 30 kHz (True RMS)
Measuring accuracy	± 0.05 % for DC and ± 0.1 % AC
Measuring rate	10 measurements/sec at display 100 measurements/sec via USB-Interface (data buffer up to 300 measurements)
Display units	Gauss, Tesla, Oersted, A/m
Temperature range	0°C–70°C
Analogue outputs	corrected ± 10 V
Interface	USB
Dimensions	W 260 mm x H 110 mm x D 260 mm
Power supply	115–230 V AC, 50/60 Hz

Gaussmeter packages

GAU-006000	BGM 201 complete package consisting of: BGM 201, 1 x selectable standard hall probe, 1 m probe extension cable BPC 201, Zero field chamber BZC 101, USB cable, PDF manual
GAU-006001	BGM 201 basic package consisting of: BGM 201, USB cable, PDF manual

Accessories

GAU-005002	Zero field chamber BZC 101
GAU-006004	1 m probe extension cable BPC 201
GAU-006010	Probe holder
GAU-006011	19" drawer

Other measuring systems

[Hystograph](#)
[AC/DC Hystograph](#)
[XYZ Field Scanner](#)
[Fluxmeter](#)

Product divisions

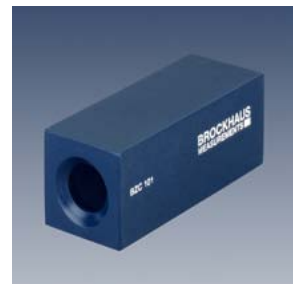
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Gaussmeter BGM 201



Rear side



Zero field chamber
BZC 101



Probes

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MEASUREMENTS