

Gaussmeter BGM 201



- 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

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:	Gaussmeter BGM 201
Measuring mode:	Hall sensor technology
Measuring range:	4 mT, 40 mT, 400 mT, 4 T, AUTO
Measuring frequency:	DC, AC to 30 kHz (True RMS)
Measuring accuracy:	± 0.05 % for DC and ± 0.1 % AC
Repeatability:	$\pm 0,1$ %
Measuring rate:	10 measurements/sec at Display (data buffer up to 300 measurements)
Display:	2Gauss, Tesla, Oersted, A/m
Temperature range:	0°C – 70 °C
Analogue outputs:	corrected ± 10 V
Interfaces:	USB
Power supply:	115 – 230 V AC, 50/60 Hz
Dimensions:	W 260 mm x H 110 mm x D 260 mm