

Gaussmeter Model 460



- Three-channel Gaussmeter for determining the magnetic field strength of permanent magnets and systems
- Measurement of magnetizing pulses
- User-friendly measuring instrument
- Mains supply
- Application in laboratories and in production lines
- Field and temperature measurement via the probe input
- Automatic temperature compensation
- Application as a single-, two- or three-channel Gaussmeter

Features

- Tri-axial measuring instrument
- 5³/₄ digits resolution
- 7 measuring ranges
- Up to 18 measurements per second
- 4-line display
- Display in Gauss or Tesla
- IEEE-488 and RS-232 interface
- Functions: Max Hold – also for Pulse Fields, Filter, Alarm, Zero Probe, Relative Reading, Auto Range, Memory Hold, AC/DC, Gauss/Tesla, Keylock, Pulse Field measurement

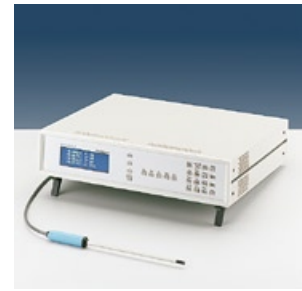
Operating principle

Multi-channel Gaussmeter with a resolution of $5^{3/4}$ digits. Up to a maximum of three probes can be connected simultaneously to enable measurements in all three spatial axes. Each measuring channel is shown in one line in the display.

Measurement of Hall voltage created in the Hall sensor which is proportional to the applied magnetic field. All the functions are displayed and controlled via the front panel of the instrument. Input via keyboard, readings on a 4-line fluorescent display with alphanumeric text. Measuring range, zero, and functions such as max hold, relative or alarm, can be set individually for each channel.

Two analogue outputs provide high accuracy and the possibility to analyse the development of the field. The corrected analogue output displays the exact value, the non-corrected analogue output shows the field strength in real time.

The comprehensive Hall probe programme includes over 500 different measuring probes. As well as conventional transverse and axial probes and probes for bi- and tri-axial measurements. BROCKHAUS also supplies probes for low-temperature applications and for measuring minimal magnetic fields.



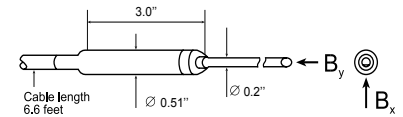
Gaussmeter 460



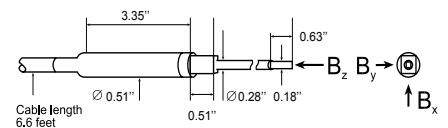
Hall probes

Technical Data

Measuring mode:	measurement of Hall voltage
Measuring range:	300 mG, 3 G, 30 G, 300 G, 3 kG, 30 kG, 300 kG
Measuring frequency:	DC, 10 Hz – 400 Hz
Measuring accuracy:	± 0.1 % of DC value, ± 2 % of AC value 0.005 % of measuring range
Repeatability:	± 0.0007 %
Measuring rate:	4 measurements / sec / display 18 measurements / sec / interface
Selection of measuring range:	automatic or manual
Resolution:	$5^{3/4}$ digits (1 of ± 300000)
Display:	4-line, vacuum-fluorescent
Probe type:	all laboratory probes
Temperature range:	0°C – 40°C
Analogue outputs:	corrected and non-corrected ± 3 V
Interfaces:	RS-232, IEEE-488
Power supply:	100 – 130 V AC / 210 – 250 V AC, 50 / 60 Hz
Functions:	Max Hold / Filter / Alarm / Zero Probe / Relative Reading / Auto Range / Memory Hold / AC/DC / Gauss/Tesla / Keylock / Pulse Field measurement



2-axis probe



3-axis probe

Accessories

Accessories included:	zero gauss chamber and power cable
Special accessories:	probe cable in lengths 3 / 7.6 / 15.24 / 30.49 m, 305 mm zero chamber / interface cable / 19" drawer



Hystograph AC/DC system XYZ Scanner Fluxmeter Gaussmeter

Other measuring systems:

- Hystograph
- AC/DC Hystograph
- XYZ Field Scanner
- Fluxmeter

Other products:

- Measuring Technology for Soft Magnetic Materials
- Magnetizing Technology
- Services

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