



- Digital laboratory Gaussmeter for determining the magnetic field strength of permanent magnets and systems
- Measurement of magnetizing pulses up to 10kHz
- User-friendly measuring instrument
- Mains supply
- Application in laboratories and in production lines
- Field and temperature measurement via the probe input

Features

Single-axis measuring instrument

4 $\frac{3}{4}$ digits resolution

7 measuring ranges

Up to 30 measurements
per second

2-line display

Display in G, T, Oe, A/m

USB interface

Functions: Max Hold,
Alarm with Relay, Zero Probe,
Relative Reading, Auto Range,
AC/DC, Keylock

Measuring Technology for Hard Magnetic Materials

Gaussmeter Model 425 DSP

Gaussmeter Model 425 DSP

Operating principle

Single-channel Gaussmeter with a resolution of 4 ¼ digits with filter in DC-adjustment and a measuring accuracy of $\pm 0.20\%$ of the measured value. The measuring rate is 3 measurements per second (display) and 30 measurements per second with USB interface.

Measurement of Hall voltage created in 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 2-line fluorescent display with alphanumerical text.

Two analogue outputs are provided. The corrected analogue output displays the exact value, the non-corrected analogue output shows the field strength in real time. Field and temperature measurements are via the probe input.

The Gaussmeter 425 DSP is used e.g. for testing magnetic materials in sensor technology and in automation. It can also function as an integrated component in controlling production processes and in the manufacture of DC motors.

Technical Data

Measuring mode	measurement of Hall voltage
Measuring range	350mG, 3.5 G, 35 G, 350 G, 3.5 kG, 35 kG, 350 kG
Measuring frequency	DC, AC up to 10kHz
Measuring accuracy	$\pm 0.2\%$ of DC value, $\pm 2\%$ of AC value $\pm 0.05\%$ of measuring range
Repeatability	$\pm 0.1\%$
Measuring rate	3 measurements / sec / display 30 measurements / sec / interface
Selection of measuring range	automatic or manual
Resolution	4 ¼ digits
Display	2-line, LCD lighted
Probe type	all DSP single-axis laboratory probes
Temperature range	5°C – 40°C
Analogue outputs	corrected and non-corrected $\pm 3.5V$
Interfaces	USB
Power supply	100 – 240V AC, 50/60Hz
Functions	Max Hold, Alarm with Relay, Zero Probe, Relative Reading, Auto Range, AC/DC, Keylock

Accessories

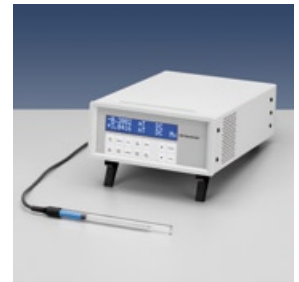
Accessories included	zero gauss chamber, terminal block, power cable, USB driver CD
Special accessories	probe cable in lengths 3m/7.6m/15.24m/30.49m, 305mm zero chamber, interface cable, 19" drawer

Other measuring systems

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

Product divisions

[Measuring Technology for Soft Magnetic Materials](#)
[Magnetizing Technology](#)
[Services](#)



Gaussmeter 425 DSP



DSP Hall probes



Axial probe



Transverse probe



Flexible transverse probe

BROCKHAUS
MEASUREMENTS