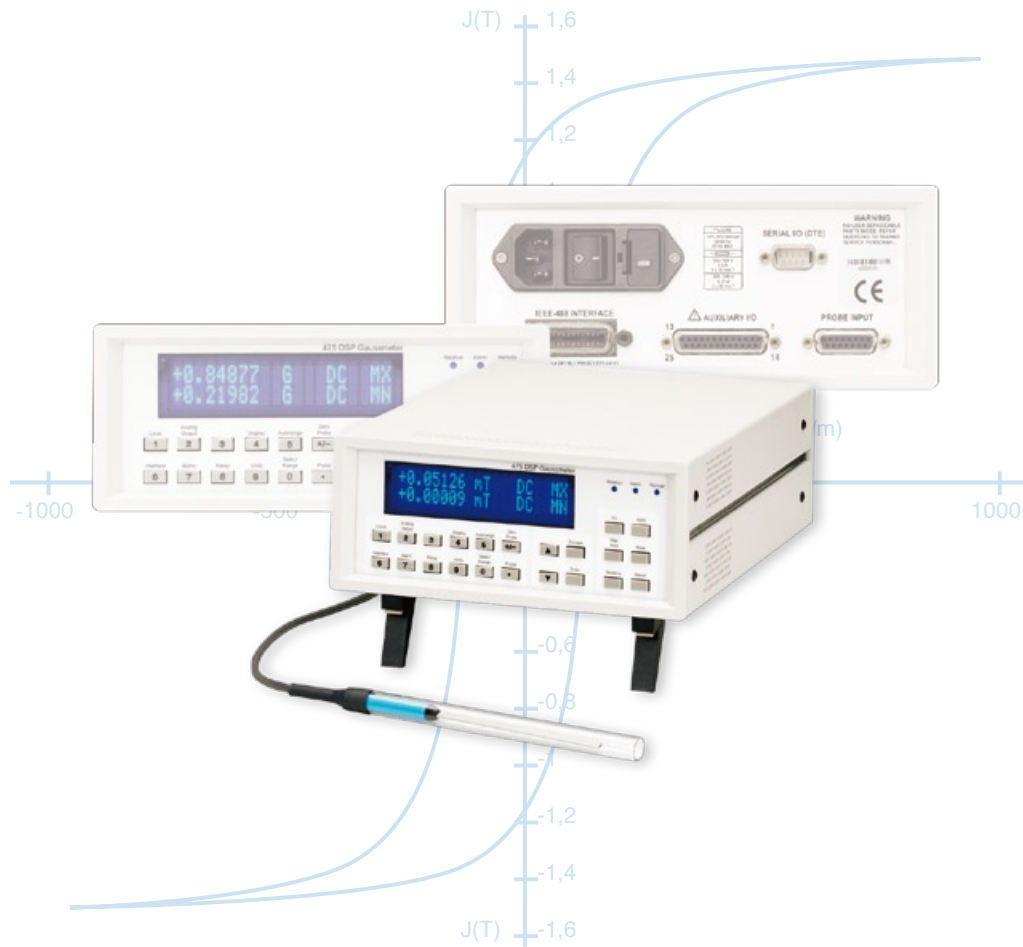




- Digital precision Gaussmeter for determining the magnetic field strength of permanent magnets and systems
- Measurement of magnetizing pulses up to 50 kHz
- Mains supply
- Application in laboratories and in production lines
- Field and temperature measurement via the probe input
- Automatic temperature compensation
- User-friendly measuring instrument

Features

Single-axis measuring unit

5 1/4 digits resolution

7 measuring ranges

Up to 30 measurements
per second

2 line display

Display in Gauss, Tesla,
Oersted, A/m

IEEE-188.2 and RS-232C interface

Functions: Max-Min Hold – also
for pulse fields, Filter, Alarm, Zero
Probe, Relative Reading, Auto
Range, Memory Hold, AC/DC,
Keylock, pulse field measurement

Measuring Technology for Hard Magnetic Materials

Gaussmeter Model 475 DSP

Gaussmeter Model 475 DSP

Operating principle

Digital Gaussmeter with a resolution of 5 ¼ digits and a measuring accuracy of ±0.05 % of the measured value. DC measurement and pulse field measurement up to 50 kHz (50 µs).

Measurement of Hall voltage created in a Hall sensor which is proportional to the applied magnetic field.

Alpha-numerical LCD display with backlight and brightness control. Field magnitude can be displayed in Gauss, Tesla, Oersted or A/m. 5 measurements per second (display). Up to 1,000 measurements per second via IEEE.2 interface. Relative reading permits measurement of changing fields with high resolution. Max Hold function for storage of fully processed maximum field value. AC Peak measurements for pulsed fields, e.g. magnetizing pulses. Temperature range: 0°C to 75°C. Axial or transverse probes available.

Technical Data

Measuring range	35 mG, 350 mG, 3.5 G, 35 G, 350 G, 3.5 kG, 35 kG, 350 kG
Measuring frequency	DC, 1 Hz – 50 kHz
Measuring accuracy	± 0.05 % of DC value, ± 1 % of AC value, ± 0.005 % of DC measuring range, ± 1 % of AC measuring range
Measuring rate	5 measurements/sec display, 30 measurements/sec interface (data buffer sampling rates to 1,000 measurements/sec)
Selection of measuring range	automatic or manual
Resolution	5 ¼ digits (1 of ± 300,000)
Display	2 line, vacuum fluorescent
Display units	Gauss, Tesla, Oersted, A/m
Probe type	all single-axis laboratory probes
Temperature range	0°C – 75°C
Analogue outputs	real-time analogue voltage, DAC field value, DAC compensated DC field value
Interfaces	RS-232C, IEEE-188.2
Power supply	100 – 240V AC, 50/60 Hz
Functions	Min-Max hold (also for pulse fields), AC Peak, Filter, Alarm, Zero Probe, Relative Reading, Auto Range, Memory Hold, AC/DC, Temperature Measuring, Keylock

Accessories

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

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

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[Magnetizing Technology](#)
[Services](#)



Gaussmeter 475 DSP



Hall probes



Axial probe



Transverse probe



Flexible transverse probe

BROCKHAUS
MEASUREMENTS