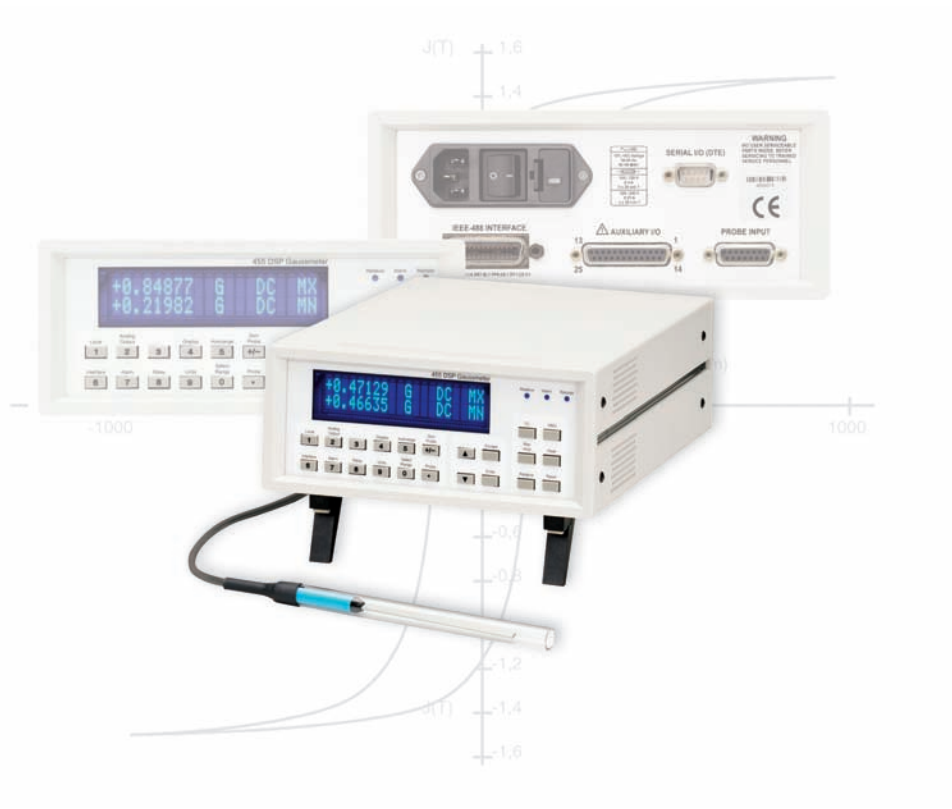


## Gaussmeter Model 455 DSP



- Digital laboratory Gaussmeter for determining the magnetic field strength of permanent magnets and systems
- Measurement of magnetizing pulses up to 20 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 <sup>3</sup>/<sub>4</sub> 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

## Operating principle

Digital Gaussmeter with a resolution of  $5^{3/4}$  digits and a measuring accuracy of  $\pm 0.075\%$  of the measured value. DC measurement and pulse field measurement up to 20 kHz (50  $\mu$ s).

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). 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

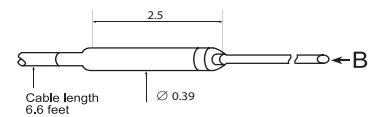
Measuring range:	35 mG, 350 mG, 3.5 G, 35 G, 350 G, 3.5 kG, 35 kG, 350 kG
Measuring frequency:	DC, 10 Hz – 20 kHz
Measuring accuracy:	$\pm 0.075\%$ of DC value, $\pm 1\%$ of AC value, $\pm 0.005\%$ of DC measuring range, $\pm 1\%$ of AC measuring range
Measuring rate:	5 measurements/sec display 30 measurements/sec interface
Selection of measuring range:	automatic or manual
Resolution:	$5^{3/4}$ digits (1 of $\pm 300.000$ )
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 – 130 V AC, 210 – 250 V 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



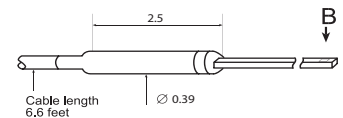
Gaussmeter 455 DSP



Hall probes



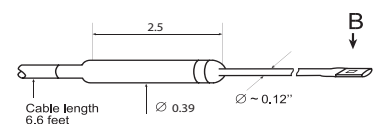
Axial probe



Transverse probe

## Accessories

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



Flexible transverse probe



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

**BROCKHAUS MESSTECHNIK**  
Advanced Measuring Technologies

Dr. Brockhaus Messtechnik GmbH & Co. KG  
Gustav-Adolf-Str. 4 · D-58507 Lüdenscheid  
P.O. Box 13 27 · D-58463 Lüdenscheid  
+49 (0) 700 brockhaus  
+49 (0) 2351 3644-0  
+49 (0) 2351 3644-44 fax  
www.brockhaus.net · mail@brockhaus.net