

MG-10D Microprocessor-Controlled Gaussmeter



The MG-10D Gaussmeter is a precision electronic instrument that advances Hall effect magnetic measurement technology. Light weight, with easy to use functions and outputs, and a new series of Hall probes, makes it functionally and technically the best gaussmeter in its class.

The MG-10D incorporates Walker's exclusive new Hall probes with standard temperature compensation and linearity correction. An easy-to-use keypad and intelligent menu display makes this gaussmeter a powerful tool for any magnetics lab or production environment.

Advanced design techniques and quality manufacturing technology help assure accurate and stable measurements over a wide variety of ranges and temperatures. With the ability to measure and display in Gauss, Tesla, Oersted and Amps/m, the MG-10D has the power to handle almost any magnetic measuring application.

Key features include high-resolution, high-accuracy and fast response. The bright easy to read vacuum florescent display has four lines of 20 alphanumeric characters, and is readable from any viewing angle. The MG-10D also features a frequency response of DC to 50 kHz, Auto Zero, Auto Range, and Hold functions for Peak Mode and Minimum Mode. Three interface connections are available: **USB**, **IEEE-488** and **RS-232**, as well as hi/lo alarm relay contacts.

The most sensitive measurements can now be made using this new class of instrumentation from Walker LDJ Scientific.

Walker LDJ Scientific continues to provide the latest in magnetic measurement products and leads the industry in complete measurement solutions. For more information on the MG-10D Gaussmeter or a catalog of all of our products call

800-962-4638 or go to the web: www.walkerldjscientific.com

Functionally and Technically the Best Gaussmeter in its Class

Features

- DC and AC Field Measurement to 50 kHz
- Auto Compensation for Probe Linearity and Temperature
- 16 Key Sealed Membrane Keypad
- Microprocessor Controlled
- User Selectable Display Resolution to 5¼ digits
- USB, RS-232 and IEEE-488 Interfaces
- Can be remotely operated by PC
- Peak and Minimum Hold
- Hi, Lo, Inside/Outside Alarms
- Bright 4-Line Vacuum Fluorescent Display
- Resolution of 10 mG (1 µT)
- Instrument Accuracy 0.05%

Applications

- Analyze magnetic circuits and components
- Measure residual fields
- Measure stray and leakage fields
- Measure absolute and differential fields
- Plot field uniformity
- Testing, Sorting, Classifying Magnets
- DC and AC Motor Testing
- Relay and Solenoid Testing
- NDT Compliance Testing
- Loudspeaker Testing



WALKER – SINCE 1896 – OVER A CENTURY OF QUALITY

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508-852-3674 • Fax: 508-856-9931 • www.walkerldjscientific.com

MG-10D Microprocessor-Controlled Gaussmeter

General

Field Ranges	±30 Gauss, ±300 Gauss, ±3 kGauss, ±30 kGauss
Auto Compensation	Linearity, Temperature
Number of Inputs	1
Keypad	16 Key, Sealed Membrane
Display	4 Line x 20 Character Vacuum Fluorescent
Display Units	Gauss, Tesla, Amp/Meter, Oersteds and Real Time Bi-Polar Bar graph, °C, °F,
Display Parameters	Measurement Mode (AC, DC), Display Type (NORM, RMS, PEAK), Alarm Status, Communication Mode

Measurements

DC

Display Resolution	To 5¼ digits
Frequency Response	DC to 20 kHz

DC Accuracy

Measurement	±0.05% of range (corrected Analog Output)
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AC Accuracy

Measurement Resolution	50 mGauss
Display Mode	RMS (Root Mean Square)
Frequency Response	5 Hz to 50 kHz
Accuracy (5 Hz to 50 kHz)	±1% of reading

Interfaces

IEEE-488.2
USB 2.0 (option)
RS-232C
Threshold Limit Relays

Analog Outputs

Connectors Type	BNC	Minimum load	50 Ω
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Uncorrected Analog

Scale	±3 V Full Scale
Accuracy	±0.5% of reading ±10mV, (DC to 50 kHz) (not corrected for linearity and temperature)

Corrected Analog

Scale	±3 V Full Scale
Accuracy	±0.1% of reading ±10mV, (DC to 50kHz)

Physical

Power Requirements	100 - 120 VAC 50/60 Hz or 220-240 VAC 50/60Hz		
Size	12.3" L x 10.1" W x 4.0" H 312.4 mm L x 256.5 mm W x 101.6 mm H	Weight:	Net 8 lbs. (3.63 kg) Shipping 15 Lbs. 6.8 kg



*Specifications Subject To
Change Without Notice*



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