

*-3,000 mG to 3,000 mG, -300.0 uT to 300.0 uT, AC/DC*

# PRECISION MILLI GAUSS METER

Model : GU-3001

*ISO-9001, CE, IEC1010*



**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

## DC/AC milligauss magnetometer

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Model : GU-3001

### FEATURES

* DC/AC milligauss Magnetometer.
* Using exclusive high sensitivity sensor ( better performance than the traditional Hall element sensor ), available for high precision magnetic field measurement.
* Wide application for industrial, mechanical, material, electrical, laboratory field to check the material contains magnetic field value.
* DC and AC magnetic field measurement
* Wide measure range : $\pm 3,000$ milligauss.
* The meter can detect the magnetic fields as small as 0.1 milligauss.
* N pole/S pole indicator.
* Separate probe, easy operation and convenient for remote measurement.
* High precision magnetometer, even can measure the absolute environment Earth's magnetic field as reference.
* Zero adjustment button for relative measurement.
* Large S-TN type LCD, high contrast, easy readout.
* Data hold function for freezing the desired value on display.
* Records Maximum and Minimum readings with Recall.
* RS232/USB computer interface.
* Microprocessor circuit assures maximum possible accuracy, provides special functions and features.
* Heavy duty & compact housing with hard carrying case, designed for easy carry out & operation.
* Auto shut off is available to save battery life.
* Power supply from batteries or DC 9V adapter in.

### SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm dual function LCD display.
Measurement	mG : milligauss
Unit	$\mu$ T : micro Tesla
Measurement	- 3,000 mG to 3,000 mG.
Range	- 300 $\mu$ T to 300 $\mu$ T.
Frequency	DC
Response	AC : 40 Hz to 10 KHz

Resolution	0.1 mG	- 199.9 mG to 199.9 mG.
	1 mG	$\geq 200$ mG, $\leq -200$ mG
	0.01 $\mu$ T	- 19.99 $\mu$ T to 19.99 $\mu$ T.
	0. 1 $\mu$ T	$\geq 20.0$ $\mu$ T, $\leq -20.0$ $\mu$ T.
Accuracy	$\pm ( 2 \% + 2 \text{ mG } )$ <i>* -1,000 mG to 1,000 mG</i> <i>* -100.0 <math>\mu</math>T to 100.0 <math>\mu</math>T</i>	
Field Direction	Uniaxial.	
Data Hold	Freeze the display reading.	
Memory Recall	Maximum & Minimum value.	
Display	Approx. 1 second.	
Sampling Time		
Power off	Manual off by push button or Auto shut off to save battery life.	
Data Output	RS 232/USB PC serial interface. <i>* Connect the optional RS232 cable UPCB-02 will get the RS232 plug.</i> <i>* Connect the optional USB cable USB-01 will get the USB plug.</i>	
Operating Temperature	0 to 50 $^{\circ}\text{C}$ .	
Operating Humidity	Less than 85% R.H.	
Power Supply	DC 1.5 V battery ( UM4, AAA ) x 6 PCs, Alkaline/heavy duty type or equivalent.	
Power Current	Approx. DC 20.5 mA .	
Weight	Main instrument : 321 g/0.71 LB.	
	@ Battery is included.	
Dimension	Probe : 78 g/0.17 LB.	
	Main instrument : 173 x 68 x 42 mm (7.9 x 2.7x 1.2 inch)	
Accessories Included	Instruction manual..... 1 PC Probe..... 1 PC Hard Carrying case, CA-06..... 1 PC	
Optional Accessories	RS232 cable, UPCB-02 USB cable, USB-01 Data Acquisition software, SW-U801-WIN	

\* Appearance and specifications listed in this brochure are subject to change without notice.

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