

DIGITAL GAUSSMETER

Model : DGM – 10

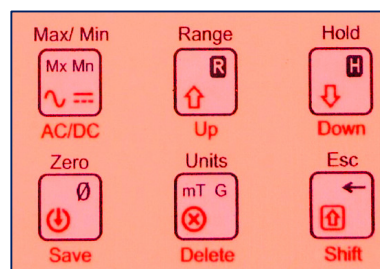
❖ Features

- ◆ Hand Held with Battery Operated
- ◆ Range - 1G to 20KG
- ◆ DC to 50 kHz frequency range
- ◆ 20 data storage location
- ◆ Max. and Min. field capture
- ◆ Self calibration of Hall Probe



❖ Introduction

DGM - 10 operates on the principle of Hall Effect in semiconductors. A semiconductor carrying current develops an electromotive force when placed in a magnetic field. The direction of this emf is perpendicular to both the electric current and the magnetic field directions. Also this emf, called hall voltage, is proportional to the intensity of the magnetic field if the current is kept constant. The small Hall Voltage is amplified in the unit by highly stable amplifiers so that its value could be read on an 16x2 LCD. The complete unit operates from a 3200mAH Li-ion battery pack, ensuring 7-8 hrs of continuous operation. Charging cable comes with the unit.



❖ Specifications

1	Resolution	1G at 2KG range & 10G at 20KG range
2	Range	2KG, 20KG
3	Display Units	Gauss (G), millTesla (mT)
4	Field	DC/ AC magnetic fields
5	Measurement Feature	Selectable Range, Max/Min Hold
6	Memory	Upto 20 data sample storage
7	Accuracy	±0.5% ±½ digit
8	Temperature	Upto 60°C (typical) (Sensor temperature can go higher)
9	Display	16x2 digit, backlit LCD
10	Power	Li-ion 3200mAH in-built chargeable battery
11	Transducer	Hall Probe – GaAs (Included)
12	Special Feature	Indicate the direction of the magnetic Field

❖ Applications

- ◆ Wide application in industry where accurate measurements of magnetic field are required.
- ◆ Laboratory experiments involving electromagnets.
- ◆ Extremely convenient magnetic field measurement in industrial environment. Can operate on battery for long durations without recharging.
- ◆ Multiple measurements can be stored and checked later.
- ◆ To check maximum and minimum fields of a surface.

Note: - There may be any change in specification due to continuous R & D without notice.

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