

# Digital Gaussmeter

DGM-HH-02

SES Instruments Pvt Ltd.

- Long Battery Life
- Measurement range (1G to 20KG)
- DC to 50 kHz frequency range
- Max. and Min. field capture
- 20 data storage location
- Self calibration of Hall Probe



## Introduction

DGM-HH-02 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

<b>Resolution</b>	1G at 2KG range & 10G at 20KG range
<b>Range</b>	2KG, 20KG
<b>Display Units</b>	Gauss (G), millTesla (mT)
<b>Field</b>	DC/ AC magnetic fields
<b>Measurement Feature</b>	Selectable Range, Max/Min Hold
<b>Memory</b>	Upto 20 data sample storage
<b>Accuracy</b>	$\pm 0.5\% \pm \frac{1}{2}$ digit
<b>Temperature</b>	Upto 60°C (typical) (Sensor temperature can go higher)
<b>Display</b>	16x2 digit, backlit LCD
<b>Power</b>	Li-ion 3200mAh in-built chargeable battery
<b>Transducer</b>	Hall Probe – GaAs (Included)
<b>Special Feature</b>	Indicate the direction of the magnetic field
<b>Calibration</b>	Auto-Calibration

## 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.

