

DGM-202

Digital Gaussmeter (with interchangeable probe)

- Wide range (1G to 20KG)
- Excellent linearity
- Excellent stability
- Interchangeable Hall probes

Introduction

DGM-202 operates on the principle of Hall Effect in Semiconductors. A semiconductor carrying current develops an electromotive force, when placed in a magnetic field, in a direction perpendicular to the direction of both electric current and magnetic field. The magnitude of this e.m.f. is proportional to the field intensity if the current is kept constant. This e.m.f. is called the Hall Voltage. The small Hall Voltage is amplified through a high stability amplifier so that a millivoltmeter connected at the output of the amplifier can be calibrated directly in magnetic field unit (gauss).

Applications

- Wide application in industry where accurate measurements of magnetic field is required.
- Measurement of steady magnetic field e.g. in loud speakers, dynamo, moving coil instruments etc.
- Useful in laboratory experiment involving measurement of magnetic field.
- With easy interchangeability of Hall Probe, same gaussmeter can be used with both transverse and axial probe.

SES-CAMM Compatible (In DGM-202-C1 only)

This unit can also be connected to a PC through an interface module SES-CAMM. SES-CAMM is a computer aided module for connecting multiple subunits of experiments, such as Hall Effect Setup, to same interface on a computer. This feature is particularly



useful in making this model compatible with computerized versions of complete experiments from our company.

Specifications

Resolution	: 1 gauss at 2 kilogauss range
Range	: 2KG and 20KG
Accuracy	: $\pm 0.5\%$
Temperature	: Upto 40°C
Display	: 3½ digit, 7 segment LED DPM with auto polarity and overflow indication
Power	: 220V $\pm 10\%$, 50Hz
Transducer	: Hall Probe-GaAs
Special Feature	: Indicates the direction of the magnetic field
Interfacing	: USB (In DGM-202-C1 model only)
Software	: DACC and CAMM, both Window compatible (In DGM-202-C1 model only)
Weight	: 3Kg
Dimensions	: 280mm X 255mm X 120mm

