

VIJAYANTA

VIJAI ELECTRONICS
28/147, CIVIL LINES
ROORKEE - 247667



DIGITAL GAUSS METER, MODEL – DGM – 100.

Model – DGM – 100 operates on the principle of Hall Effect in Semiconductors. A semiconductor material carrying current develops an Electro – motive 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. This 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 eg. in loud speakers, dynamos, moving coil instruments etc.

Useful in laboratory experiments involving Electromagnets.

FEATURES :

- ** Magnetic field Measurement.
- ** Excellent Linearity.
- ** I.C. Controlled Circuit.
- ** Excellent Stability.

SPECIFICATIONS :

Range	:	0 – 2 KG and 0 – 20 KG.
Resolution	:	1 G at 0 – 2 KG Range
Accuracy	:	± 0.5%.
Temperature	:	Upto 50 ⁰ C.
Display	:	3 ½ Digit, 7 segment LED DPM.
Power	:	220, Volt 10%, 50 Hz.
Transducer	:	Hall Probe with an imported Hall Element.
Special Feature	:	Indicate the direction of the magnetic field.