

IV-E192D Hall Effect Experimental Setup With Software



Hall Effect is an instrument to determination of mobility of charge carriers.

Experiment :

- Hall Effect is an instrument to determination of mobility of charge carriers.

Apparatus Supply :

1. ELECTROMAGNET
2. DIGITAL POWER SUPPLY FOR ELECTROMAGNET
3. DIGITAL GAUSS METER
4. CONSTANT CURRENT POWER SUPPLY
5. WOODEN STAND
6. Computer Aided Measurement Module, Complete With Suitable Software
7. HALL CRYSTALS

- N and P Type Hall Crystal Mounted on PCB
- Termination: 4Nos. (2mm for Voltage and 4mm for Current)
- 10mm Rod mounted on PCB to be Hold at Wooden Stand
- Type: N
- Size: 10mmx8mm

Thickness:

Resistivity x 10 ² (.m) at room temperature	0.8027
Hall Coefficient x 10 ⁶ (m ³ coloumb ¹)	-6680
Type	N
Mobility x 10 (m ² /V.s)	257.006
Carrier concentration x 10 ¹⁹ (m ⁻³)	3.92 x 10 ⁵