

IV-E192 Hall Effect Experimental Setup



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. 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 coulomb ⁻¹)	-6680
Type	N
Mobility x 10 (m ² /V.s)	257.006
Carrier concentration x 10 ¹⁹ (m ⁻³)	3.92 x 10 SOLUTIONS