

IV-E440 E/M Thomson Experiment Setup (Bar Magnet Setup)

Scope of Learning:

- Determining the value of specific charge e/m of an electron by Thomson Method

Technical Specification:

- Cathode Ray Tube Distance between Plates: $d = 1.4\text{cm}$
- Length of Plates: $l = 3.23\text{cm}$
- Distance between Screen and Plates (edge): $L = 14.5\text{cm}$
- Focusing Voltage: Variable 0 - 300V DC
- Intensity Adjustment Voltage: Variable 0 - 60V DC
- Deflection Voltage: Variable 0 - 50V
- Scale: 10 - 30cm each side
- CRT connection: Octal socket
- Digital Meter: 3 ½ Digit (LED Display)
- Deflection magnetometer: 0 to 90°
- Mains: 230V AC $\pm 10\%$, 50Hz
- Fuse: 500Ma
- Dimension of Power Supply(mm): W 215 x D 195 x H 130

Salient Features:

- DC Power Supply instrument for CRT
- LED to measure deflection voltage
- Focusing adjustment provided
- Intensity adjustment provided
- Cathode Ray Tube mounting on acrylic stand
- Deflection magnetometer provided
- Octal socket provided on the front panel of power supply for connecting CRT
- Provided with Pair of bar magnet and Compass Box Online product tutorial



Optional Accessories:

- No