

IV-E603 E/M Halical Method (Long Solenoid)

Scope of Learning:

- Determining the value of specific charge e/m of an electron by Helical 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
- Solenoid: Copper Wound (Fitted on Base With Input Terminals)
- CRT connection Digital Meter Deflection Voltage: 3 ½ Digit (LED Display)
- Solenoid Power Supply: :32 Digit (LED Display) Load Current of Solenoid 0-65V, 2A (Through Rotary Switch in Steps of 5V) 0-65V, 2A (Current Control through Potentiometer)Provision of On/Off and Polarity Change Separate Terminals for Solenoid Power Supply Output.
- 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 Display to measure deflection voltage
- Focusing adjustment provided
- Intensity adjustment provided
- Cathode Ray Tube having provision of Sliding
- Octal socket provided on the front panel of power supply for connecting CRT
- Provided with Online product tutorial.