



**OMEGA TYPE EM-35** Experimental set-up has been designed specifically for determination of Specific Charge ("e/m") of an Electron by Magnetic Focusing method. The experimental set-up is absolutely self contained & require no other apparatus.

Practical experience on this set up carries great educative value for Science and Engineering Students.

#### OBJECT

01 To determination of Specific Charge ("e/m") of an Electron by Magnetic Focussing method.

#### FEATURES

The apparatus consists of the following :

- 01 Cathode Ray Tube ( C.R.T. ) Fitted on a stand with a scale for measuring position of magnetic coil.
- 02 A magnetic coil whose axis of the tube and is free to move from screen to electron gun of C.R.T.

03 A power supply unit which consists of :

- 3.1 High voltage power supply to operate the CRT : accelerating voltage varied from 1200 to 1500V & Digital voltmeter has been provided to read the voltage.
- 3.2 Power supply to operate the magnetic coil : DC supply of 30V at 0 - 1.5 Amp current. An Digital ammeter has been provided to read the current in magnetic coil.
- 3.3 Two potentiometer to control the intensity and Accelerating voltage of CRT.
- 04 Mains ON/OFF switch, and Fuse.
- 05 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
- 06 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 07 Weight : 7 Kg. (Approx.)
- 08 Dimension : W 290 x H 160 x D 265

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

## OMEGA ELECTRONICS

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