



**OMEGA TYPE ES-230** Experimental Set Up has been designed specifically for determination of Stefan's constant by using an incandescent Lamp and Photo Voltaic Cell. It is based on Stefan-Boltmann relation. The set up is absolutely self contained and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

**OBJECT**

01 To determine the Stefan's constant by using an incandescent lamp and Photo Voltaic Cell.

**FEATURES**

The Set up consists of the following :

- 01 A board with following built-in parts :
  - 1.1 D.C. Power Supply, 0-6V at 3A, I.C. regulated continuously variable and short circuit protected, with coarse and fine voltage control.
  - 1.2 Digital D.C. Voltmeter  $3\frac{1}{2}$  Digit range 0-20V .
  - 1.3 Digital D.C. Current meter  $3\frac{1}{2}$  Digit range 0-20Amp.
  - 1.4 Digital D.C. Voltmeter  $3\frac{1}{2}$  Digit with selectable switch range 0-200mV/2V.
  - 1.5 ON / OFF Switch with Indicator

- 02 An incandescent lamp 6V, 18W with lamp house.
- 03 A Photo Voltaic Cell mounted in a house.
- 04 Optical bench with two stands, one for lamp house and other for photo voltaic cell.
- 05 The unit is operative on 230V  $\pm 10\%$  at 50Hz A.C. Mains.
- 06 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

07 Weight : 9.8 Kg. (Approx.)

08 Dimension : W 415 x H 165 x D 315.

**LIST OF ACCESSORIES**

- 01 Patch cord 4mm Length 50cm. Red.....02
- 02 Patch cord 4mm Length 50cm. Black.....01

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

**OMEGA ELECTRONICS**