



**OMEGA TYPE ES-273** Experimental Set-Up has been designed specifically to determine the refractive indices  $\mu_o$  and  $\mu_e$  of quartz prism for the ordinary and extraordinary rays using spectrometer and sodium light. The set-up consists of Spectrometer, quartz prism, Sodium light source, Reading lens etc.

The set-up is complete in all respect and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

#### OBJECT

To determine the refractive indices  $\mu_o$  and  $\mu_e$  of quartz prism for ordinary and extra ordinary rays using Spectrometer and Sodium light.

#### FEATURES

The complete Experimental Set-up consists of the followings :

##### 01 Spectrometer standard

6" dia circle reading 30 seconds. The objectives used in telescope and collimator are achromatic and provided with rack and pinion focusing arrangement. Telescope arm and prism table are provided with fine and coarse adjustment. The prism table is provided with three leveling screws

and is engraved with concentric rings & lines. The scales and verniers are of stainless steel and are machine divided. Clamping devices are also provided to lock telescope and collimator after adjustment; with prism clamping device and diffraction grating stand.

##### 02 Sodium light source

Sodium light source complete with sodium lamp 35 watt with vacuum jacket, Transformer & Wooden Box having four holes with slide covers one each on every side at different heights.

##### 03 quartz prism

Optically worked with two faces polished equilateral size 25mm x 25mm.

##### 04 Reading lens

40 mm diameter with handle

##### 05 Spirit level : 50 mm length

##### 06 Weight : 13.7 Kg. (Approx.)

##### 07 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

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

## OMEGA ELECTRONICS

#### Works:

28E & F, Malviya Industrial Area,  
Jaipur-302 017 (INDIA)  
Phone: 0141-2751559

E-mail : info@omegaelectronics.net  
omegajipur62@gmail.com

[www.omegaelectronics.net](http://www.omegaelectronics.net)

#### Marketing Division:

B-28, Fateh Singh Scheme, Opp. Rajputana  
Palace Sheraton, Jaipur-302006 (INDIA)  
Phone : 091-141-2375647, 2379223