



55814 Experimental Set-Up has been designed specifically to determine the Refractive Index of liquids (Water, Paraffin Oil, Glycerol, Kerosene, Benzene etc.) in the form of prism by using Laser and it's detector. The set-up consists of Circular table, Helium Laser, Hollow Prism, Laser Detector, Digital Milliammeter, Reading lens and Spirit Level.

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

Determination of refractive index of liquids (Water, Paraffin Oil, Glycerol, Kerosene, Benzene etc.) using Laser.

FEATURES

The complete Experimental Set-up consists of the following items.

01 Helium Laser with Power Supply.

Maximum output : 1 mW

Wave length : 670 nm visible red

Power supply : Included with ON/OFF switch working on 230 mains.

02 Circular Table :

Spectrometer scale 6" dia circle with vernier but without Collimator & Telescope. It has two holders one for Laser & other for Laser Detector.

03 Hollow Prism : Hollow glass prism size 50mm X 50mm.

04 Laser Detector : Composition silicon Laser detector mounted in case.

05 Digital Milliammeter : DPM milliammeter 0–2 mA. DC house in bakelite case, display 3½ digit, power required 230V \pm 10% at 50 Hz. mains.

06 Reading Lens : 50mm diameter with handle

07 Spirit Level : 60 mm length

08 Weight : 9.4 Kg. (Approx.)

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

Note: Specifications are subject to change.

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