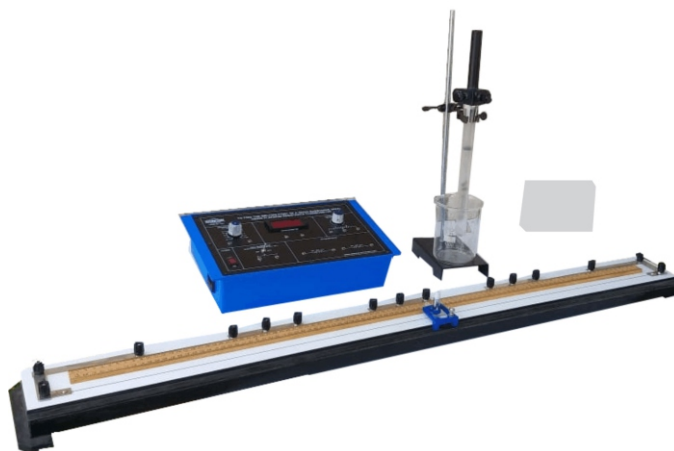


FIND THE MELTING POINT OR TEMPERATURE COEFFICIENT OF RESISTANCE OF A GIVEN SUBSTANCE (WAX), USING PLATINUM RESISTANCE THERMOMETER OMEGA TYPE ES-242



OMEGA TYPE ES-242 Experimental Set Up has been designed specifically for finding the melting point of a given substance (wax), using Platinum Resistance Thermometer. 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. Determination of r The Resistance per Unit Length of a Carey Foster's Bridge
02. To Find the Melting Point or temperature coefficient of resistance of a Given Substance (Wax), Using Platinum Resistance Thermometer

FEATURES

- 01 The board consists of the following :
 - 1.1 Decade Resistance in ten step 0.1 ohms, Total Resistance 1 ohms.
 - 1.2 Digital Galvanometer
 - 1.3 Wire wound potentiometer mounted with three sockets in place of Rheostat 10E 1W
 - 1.4 Cell Eliminator with switch voltage 1V5 substitute Leclanche Cell.
 - 1.5 Two fix resistance 5E/10 W
- 02 Carey Foster's Bridge-Four gaps, with sliding jockey OMEGA TYPE CFB-182.
- 03 Platinum Resistance Thermometer: Enclosed in a corning glass tube of approx. 50 cm length and 2 cm diameter. A fine platinum wire is wound on mica frame. Its resistance is approximately 2.8 ohms. The two platinum leads and two compensatory leads are connected to four terminals on a square block OMEGA TYPE PRT-195.
- 04 Stand for holding the Platinum Resistance Thermometer
- 05 Beaker size 500ml
- 06 Wax 300gm
- 07 Adequate no. of connecting wires, 50cm and 100 cm long.
- 08 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.

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