OMEGA

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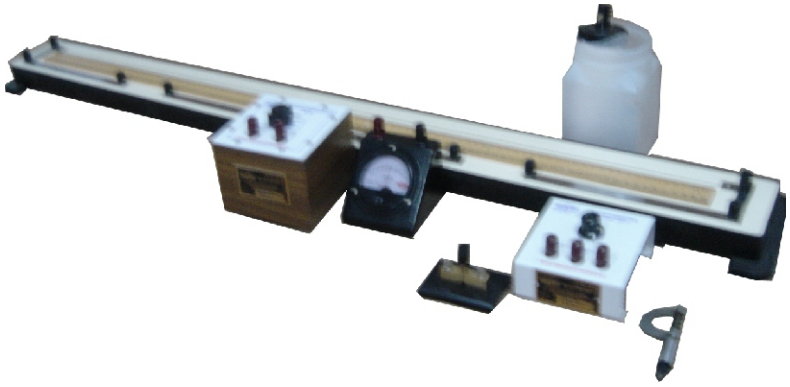
# DETERMINATION OF SPECIFIC RESISTANCE OF A MATERIAL AND DIFFERENCE BETWEEN TO SMALL RESISTANCES USING CAREY FOSTER'S BRIDGE

OMEGA TYPE ES-225

**OMEGA TYPE ES-225** Experimental Set Up has been designed specifically to determine the resistance per unit length of Carey Foster's Bridge wire, the difference between two small resistances and the specific resistance of the material of a wire using Carey Foster's Bridge. 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 the resistance per unit length of a Carey Foster's Bridge wire.
02. Determination of difference between two small resistances using Carey Foster's Bridge.
03. Determination of specific resistance of the material of a wire using Carey Foster's Bridge.

## FEATURES

The Set up consists of the following :

01. Carey Foster's Bridge - Four gaps, Sunmica top with sliding jockey OMEGA TYPE CFB-182.
02. Galvanometer 30-0-30 ,65 mm round dial with push button controlled shunt, mounted on bakelite stand OMEGA TYPE MO-65PB.
03. Leclanche Cell.
04. Resistance wire of two different gauges each of ½ metre length.
05. Decade Resistance Box, One dial in steps of 0.1 ohms, total 1 ohms OMEGA TYPE DRBC-115U.
06. Single way plug key.
07. Wire wound potentiometer mounted with three terminals in place of Rheostat 10W 1W OMEGA TYPE POT-10.
08. Micrometer Screw Gauge.

* Weight : 3.5 Kg. (Approx.)
* Adequate no. of connecting wires, 100cm long.
* Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.



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