Order Code - 55713
Determination of Mechanical Equivalent of Heat (j)
By Electrical Method (joule's Calorimeter)

55713 Experimental Set Up has been designed specifically to determine the mechanical equivalent of Heat (J) by electrical method (Joule's Calorimeter).
Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT

01 To determine the mechanical equivalent of Heat (J) by electrical method (Joule's Calorimeter).

FEATURES

The Set up consists of the following :

01 Aboard with following built-in parts :
- 1.1 D.C. Power Supply, 0-3V D.C. at 2 Amp (on load), continuously variable.
- 1.2 Digital Voltmeter DC 3½ Digit Having range of 20V.
- 1.3 Digital Current meter DC 3½ Digit Having range of 0-2A
- 1.4 Mains ON/OFF switch, Fuse and Jewel light.
- 1.5 The unit is operative on 230V ±10% at 50 Hz. A.C. Mains.

02 Thermometer 0-110°C
03 Joule's Calorimeter consisting of Copper Calorimeter fitted in teakwood polished case with bakelite top having holes for thermometer & stirrer, two terminals connected to a coil of wire.
04 Weight : 4.3 Kg. (Approx.)
05 Dimension : W 415 x H 165 x D 315.
06 Adequate no. of connecting wires, 100cm long.
07 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

OTHER APPARATUS REQUIRED:

01 Digital Stop Clock with START/STOP operation by means of toggle switch & RESET by a push button switch. It has a range of 999.9 seconds with resolution of 0.1 seconds and accuracy of ±0.01% (Quartz controlled). Display is thorough 4 no's of 12.5mm bright Seven Segment Displays and working voltage of the unit is 230V± 10% 50Hz
02 Physical Balance with Weight Box

Note: Specifications are subject to change.

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