SBP 303
THERMOCOUPLE SETUP

A thermocouple is an electrical device consisting of two dissimilar electrical conductors forming electrical junctions at differing temperatures. A thermocouple produces a temperature-dependent voltage as a result of the thermoelectric effect, and this voltage can be interpreted to measure temperature. Thermocouples are a widely used type of temperature sensor. Commercial thermocouples are Inexpensive, interchangeable, are supplied with standard connectors, and can measure a wide range of temperatures. In contrast to most other methods of temperature measurement, thermocouples are self powered and require no external form of excitation. The main limitation with thermocouples is precision; system errors of less than one degree Celsius (°C) can be difficult to achieve.

Thermocouple

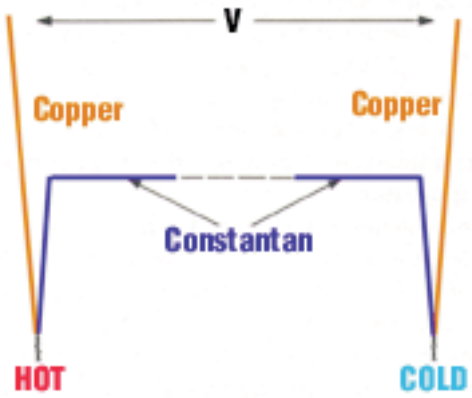
Two different types of thermocouple made from different material mounted on a bakelite frame will be supplied.The one thermocouple is made up from copper-constantan & other is made up of copper iron to study the difference. Two terminals are provided on the thermocouple for connection with digital millivoltmeter.

Heating pot : 1no. Heating pot within built heating element for heating of thermocouple

Beaker : 1no. PVC beaker for cold junction

Digital Millivoltmeter : sensitive digital voltmeter 31/2 digit 7 segment LED display for reading the e.m.f directly in millivolt.

Thermometer : 1no. 110 degree



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