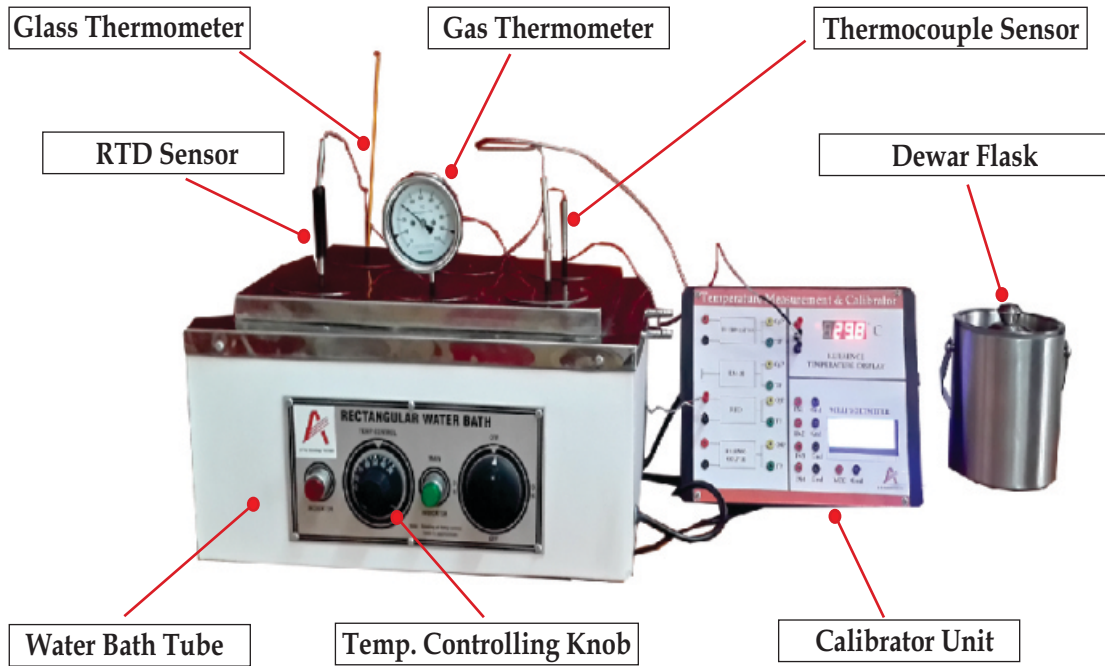


Temperature Measurement & Calibration Unit



Description

This unit has been designed to study temperature measuring Techniques and the modes of calibration of the relevant sensors by means of fixed points and of a thermometer provided with calibration certificate. It consists of a hot water bath and of an ice bath to determine Precise reference points (boiling point and melting point of Water) and variable temperatures. A set of thermometers of different types is fixed onto a support that can be moved from the hot bath to the ice bath. The available thermometers are:

- Reference Pt100 thermo resistance with calibration certificate
- Industrial Pt100 thermo resistance
- Two K-type thermocouples
- PTC thermistor
- Inert gas thermometer
- Liquid thermometer

Technical Specification

- Thermal bath of AISI 304 stainless steel equipped with:
 - ✓ Stirrer
 - ✓ shielded heating element
 - ✓ safety level switch
 - ✓ Digital temp. Indicator-cum-Controller
 - ✓ Working temperature range:- 5°C ~100°C
 - ✓ 6 holes and 8 liters capacity
- Dewar flask of stainless steel with high vacuum insulation,
 - ✓ Capacity of 1 litre
- Support for thermometers
- Reference Pt100 thermo resistance with 3 points calibration certificate
 - ✓ Range :-50 to 200C
 - ✓ Accuracy :± 0.1C
 - ✓ Resolution :0.01C
 - ✓ Input :J, K, Pt100
- Different Type Of Temperature Sensor
 - ✓ Industrial Pt100 thermo resistance of class A
 - ✓ Range: -200 to 650C
 - ✓ Accuracy: ± 0.2C
 - ✓ K-type thermocouple.
 - ✓ Thermistor (PTC)
 - ✓ Liquid thermometer
 - ✓ Range:- -10 to 110C
 - ✓ Gas thermometer
 - ✓ Range:- 0 to 100C
 - ✓ Accuracy:- ± 3C
 - Electric console with 20*4 LCD displays and controls.
 - PC/USB interface for calibration.
 - Milli Voltmeter
 - ✓ Range:- 0mV to + 3300mV



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