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Product Name :

Temperature Measurement and Calibration Apparatus

Product Code :

SLE/EA/12



Description :

Temperature Measurement and Calibration Apparatus (Product Code: SLE/EA/12) is a benchtop teaching unit used to compare eight different temperature measurement devices and calibrate them against a precision reference sensor in engineering and physics laboratories. Students work between an insulated ice box and a guarded tank that heats water steadily up to boiling, while a display gives the reference temperature, local pressure and local boiling point. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM maker of thermometry apparatus in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Mounting	Fits on a desk or benchtop
Devices included	Eight different temperature measurement devices, for studying their characteristics and calibrating them against a standard
Temperature reference	Built-in precision reference sensor
Display	Shows the reference temperature and the local pressure from a built-in pressure sensor; calculates the local boiling point of water from barometric pressure
Heating	Carefully rated immersion heater that warms the tank water steadilyup to boiling
Ice point	Insulated icebox filled with crushed ice by the students
Water heater tank	Fully guarded, with a drain tap for connection to a suitable container or local water drain
Safety	Water level float switch and safety temperature cut-out switch that turn off the heater if the water level is low
Product code	SLE/EA/12
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Temperature Calibration Apparatus Used For?

Students place the temperature devices beside the reference sensor, first in the crushed-ice box and then in the heater tank as the water warms, recording readings at intervals. Comparing each device with the reference shows its characteristics, such as offset and response, and teaches how a calibration against a standard is built up. The slow, steady heating leaves time to take accurate results at every step.

Because the display works out the local boiling point from barometric pressure, learners see why water rarely boils at exactly the textbook value and correct their upper fixed point accordingly. The u
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