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Product Name :
Advanced Temperature Measurement Trainer

Product Code :
LBNY-0005-1250002



Description :

The transient response of the sensors can be examined by quickly immersing them in the second tank. Digital instruments for measuring temperature, voltage and resistance enable the characteristic curves to be drawn. A wide range of temperature measurements can be performed and compared using this unit. A 3-channel line recorder can be used to continuously record the measured values from the electrical temperature sensors (thermocouple, thermistor, RTD) and thus to document the different responses. The thermometers and temperature sensors to be investigated are heated to the same temperature in a tank of water. A second heated tank with an electronic control system provides water temperatures up to 80C.

Technical Specification :

Steady-state and non-steady-state temperature measurement with 7 typical instruments

Thermometers: mercury, bimetallic and gas; psychrometer

Temperature sensors: RTD (PT100), thermocouple type K, thermistor (NTC)

Calibration device: digital voltmeter

Defined temperature steps up to 80C

Fan generates constant air temperature above experimental tank

3-channel line recorder

2 tanks: water tank and heated tank with temperature control

Both tanks fitted with a stirring machine.

Laboratory Instrument India

