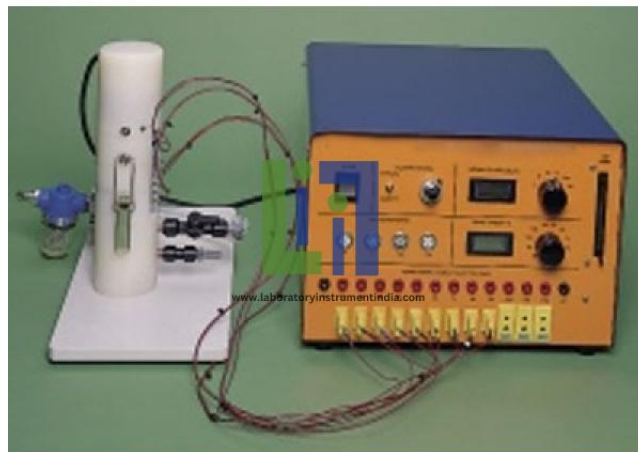




Email : sales@laboratoryinstrumentindia.com

Product Name :
Linear Heat Conduction

Product Code :
LBNY-0005-10200046



Description :

The heating section, cooling section and one of the intermediate sections are fitted with thermocouples (eight in total) evenly spread along the length of the assembled conduction path.
A small-scale accessory designed to introduce students to the principles of linear heat conduction, and to enable the thermal conductivity of various solid conductors and insulators to be measured.
Includes a water pressure regulator, an electronic proportioning solenoid valve to control the cooling water flow rate and a water flow meter.
Comprises a heating section, cooling section plus four intermediate section conductor samples and two insulator samples.
All sections are insulated to minimize errors due to heat loss.
Includes a water pressure regulator and a manual flow control valve.
Heater power variable up to 60 Watts.
Water flow rate variable up to 1.5l/min.
Heating and cooling sections, 25mm diameter.
A comprehensive instruction manual is supplied.
The accessory is mounted on a PVC baseplate, which is designed to stand on the bench top and connect to the Heat Transfer Service Unit without the need for tools.

Technical Specification :

A control valve enables the flow of cooling water to be varied, if required, over the operating range of 0-1.5l/min.
The cooling water flow rate is measured by a turbine type flow sensor.
Thermocouples are positioned along both the heated sections at uniform intervals of 15mm to measure the temperature gradient along the sections.

A pressure regulator is incorporated to minimize the effect of fluctuations in the supply pressure. The temperature difference created by the application of heat to one end of the resulting wall and cooling at the other end results in the flow of heat linearly through the wall by conduction. The accessory comprises a heating section and cooling section, which can be simply clamped together or clamped with interchangeable intermediate sections between them, as required.



Laboratory Instrument India