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Product Name :
Thermal Conductivity of Building Material Apparatus

Product Code :
LBNY-0005-10200013



Description :

The assembly is contained in a thermally insulated enclosure to minimise heat losses. The heat flowmeter gives an output to a digital panel meter on the special control and instrumentation console. Special thermocouples are arranged to measure mean temperatures either side of the test specimen, allowing the temperature gradient across the sample and hence the thermal conductivity to be determined. The Thermal Conductivity of Building Material Apparatus uses a PID controlled flat plate electrical heater and a water cooled flat plate with an integral and highly sensitive heat flowmeter. The 300mm *300mm specimen under test is sandwiched between the heated and cooled plates.

Technical Specification :

Experimental Capabilities:

Measurement of the Thermal Resistance of thin stacked samples of building materials.

Measurement of the Thermal Resistance of typical building materials.

Rapid measurement of Thermal Conductivity For Materials with Thermal Resistance in the range 0.1 to 1.4 m2 K/W. (Resistance=Thickness/Conductivity).



Laboratory Instrument India

