

**Product Name :**  
THERMAL CONDUCTIVITY OF METAL ROD

**Product Code :**  
TRANSFORMER0008



## Description :

THERMAL CONDUCTIVITY OF METAL ROD

## Technical Specification :

The experimental set up consists of metal bar, one end of which is heated by an electric heater while the other end of the bar projects inside the cooling water jacket. A cylindrical shell filled with the adhesive insulating powder surrounds the middle portion of the bar. The temperature of the bar is measured at different sections. Heat input to the heater is given through variac and measured by Digital Voltmeter & Digital Ammeter. By varying the heat input rates, wide range of experiments can be performed. Water under constant head condition is circulated through the jacket and its flow rate and temperature rise is noted.

### Experiments

- To plot the temperature distribution along the length of Bar
- To determine the thermal conductivity of given bar at various temperatures

### Utilities Required

- Water supply (2 lit/min approx.)
- Drain
- Electricity Supply- 1 Phase, 220 V AC 2 Amp.
- Table for set-up support



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