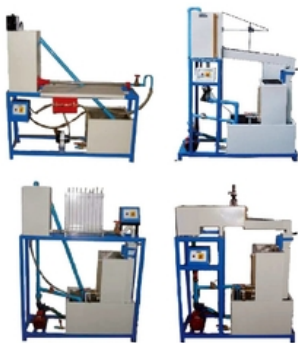


Thermal Conductivity Of Metal Rod



Product Categories: [Engineering Equipment](#), [Heat Transfer Lab](#)

Product Page:

<https://www.labappara.com/product/thermal-conductivity-metal-rod/>

Product Description

Other information:

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 Insulating Material 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. By Varying The Heat Input Rates, Data Can Be Obtained. Water At Constant Rate Is Circulated Through The Jacket And Its Flow Rate And Temperature Rise Is Noted.

Consists of metal bar and cooling water jacket for water circulation

A cylindrical shell is provided for insulating the bar as this contain asbestos insulating

Powder Heat Input given unit is Varian

Digital Voltmeter & Digital Ammeter are present for measuring heat input

Technical details:

Copper Length: 450 mm Dia: 25 mm

250 mm Dia: 200 mm

75 mm Dia: 100 mm

Nichrome Wire

Measuring cylinder & Stopwatch

RTD PT: 100 type (8 Nos.)

Digital Voltmeter: 0300 Volt

Digital Ammeter: 02 Amp

Varian: 0230 V, 2 A

Digital Temp. Indicator: 0199.9° C, with multichannel switch

On/off switch, Mains Indicator

Powder coated base plate

Metal Bar Material:

Insulating Powder shell Length

Cooling Water Jacket Length

Heater

Water Flow measurement

Temperature Sensors

Thermal Conductivity of a Metal Rod Apparatus