

Experiment(s):

1. Determination of thermal conductivity of a given sample

(For more details, procedure & manual visit: www.kamaljeeth.net)



(a)



(b)



Experiment Setup Consists:

- a) Thermal conductivity Sample and temperature sensor
- b) Digital multi stem thermometer with clock

Specifications:

a) Thermal conductivity Sample and temperature sensor

Rod Material: Iron

(Also customizable for Aluminium, Copper & Brass)

Rod uniform cross section:

Approx 12mm

Rod Length: 350 mm

Heater: Ceramic type, 35W

Max temperature: 125°C

Sensors: 6 probes at 50mm interval

Resolution: 1°C

Power: AC 220V/50Hz or

AC 110V/60Hz

Power Consumption: <60W

b) Digital multi stem thermometer with clock

Sensor Inputs: 6

Clock: 0-9999 sec,

Clock readout: Always displayed in sec

Reset: Independent of

temperature sensor probe

Power: 220V, 50Hz mains operated

Probe Heater: Built-in, heating

Reference : Lab Experiments Journal vol-14, No.3, Page-208



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