

Product Name :
EMMISSIVITY MEASUREMENT APPARATUS**Product Code :**
Heat and Mass0004**Description :**

EMMISSIVITY MEASUREMENT APPARATUS

Technical Specification :

The unit consists of two circular aluminium plates of identical dimensions. One of the two plates is blackened and considered as a black surface. While the other plate is the test plate. Both plates have a nichrome wire heater wound on a mica sheet attached to them. Both plates are kept in a close enclosure. Supply of heat to both plates is given by different variances measured by a voltmeter & ammeter. Heat input to both plates can be read with the help of SPDT switches. A temperature indicator is provided to measure the temperature of both plates.

SPECIFICATIONS:-

- Diameter of Test Plate = 0.18 m
- Diameter of Black Plate = 0.18 m
- Temperature indicator = 0 – 300 °C
- Ammeter = 0 - 5 A
- Voltmeter = 0 – 300 V
- Dimmerstat (2Nos.) = 1000 watt
- Heater = Nichrome strip wound on mica sheet.
- Enclosure = With one side of Acrylic sheet

FEATURES:-

- Emissivity of a non black surface can be determined over a range of temperature.
- Ideal for group studies & demonstration.

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- Panellized instruments mounted on a control panel.
 - Easy to operate.

SERVICE REQUIRED:-

- Suitable bench area to mount the instrument.
- 15 amps, Single Phase A. C. supply with earthing connection

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