

Product Name :
EMISSION MEASUREMENT APPARATUS

Product Code :
TRANSFORMER0012



Description :

EMISSION MEASUREMENT APPARATUS

Technical Specification :

The present setup is designed to measure the emissivity of test plates. The test plate comprises of a mica heater sandwiched between two circular plates. Black plate is identical with test plate, but its surface is blackened. As all the physical properties, dimension and temperature are equal, heat losses from both plates will be same except radiation loss. Hence the input difference will be due to difference in emissivity. Both plates are supported on individual brackets in a wooden enclosure with one side glass to ensure steady atmospheric conditions. Temperature sensors are provided to measure the temperature of each plate and surrounding. Supply is given to heaters through separate variac so that temperatures of both can be kept equal and is measured with digital voltmeter and digital ammeter.

Experiments:

- Determining the Emissivity Of A Test Plate.
- Study the Variation Of Emissivity Of Test Plate With Respect To Absolute Temperature.

Utilities Required:

- Electricity Supply: 1phase, 220 V AC, 4 Amps.

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