

Product Name :
Laws of Radiant Heat Transfer

Product Code :
ALABS-A104-321



Description :

Laws of Radiant Heat Transfer

- An accessory designed to experimentally investigate the laws of radiant heat transfer and radiant heat exchange. The application of the laws to both heat and light radiation are demonstrated using a radiant heat source and light source. Two appropriate detectors, light filters, target plates of different Emissivity and aperture plates each mounted on suitable carriages on a parallel graduated track, and allow simple and rapid experimental procedures.
- The electrically heated matt black radiant heat source has an effective diameter of 100mm. and is fitted with an integral thermocouple to record its surface temperature.
- A radiometer detects the heat flux directly in W/m^2 from either the source, a combination of four plates of different Emissivity (two matt black, one grey and one polished) or between a slot formed by two moveable cork faced plates. Each plate of different Emissivity incorporates a surface thermocouple for temperature measurement.

- The diffuse light source comprises a low voltage filament lamp within a rotatable enclosure (180°) that can be located on the parallel track in place of the heat source.
- A lightmeter recording directly in lux may be located in place of the radiometer in order to measure incident intensity.
- Supplied filter plates of varying opacity and thickness can also be mounted on the track to demonstrate the laws of light absorption.



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