

STEFAN'S CONSTANT (BLACK BODY RADIATOR)

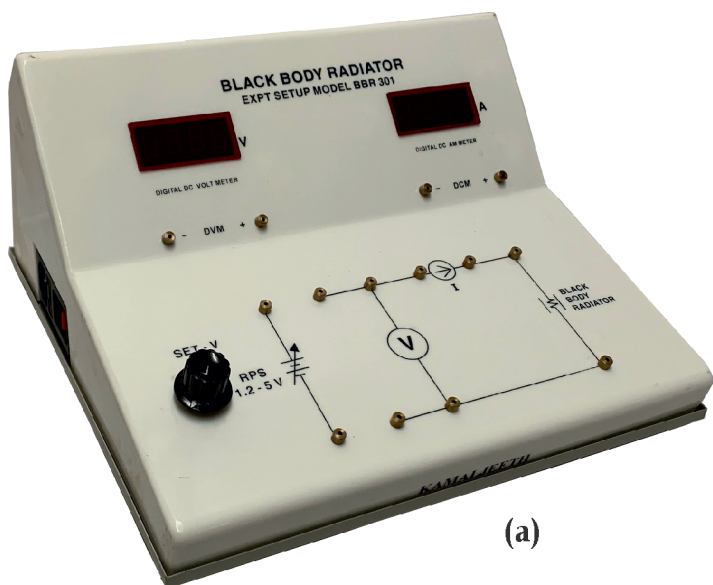
Model: BBR-301/126

Experiment(s):

1. Determination of Stefan constant and verification of Stefan-Boltzmann Law (4th power law)

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

Reference : Lab Experiments Journal vol-2, No.3, Page-57
Lab Experiments Journal vol-13, No.2, Page-112



(a)

Experiment setup consists:

- a) Black body radiator kit
- b) Temperature sensor

Specifications:

a) Black body radiator kit

Power supply: 0-7 V DC variable & Short circuit protected
 Volt meter: Digital DC 3½ digit
 Range: 20 V
 Resolution: 0.01 V
 Current meter: Digital DC 3½ digit
 Range: 2 A
 Resolution: 0.01 A
 Black Body: 26 mm blackened by chemical treatment
 Heater: Resistance type
 Rated Input: 220 V/50 Hz or 110 V/60 Hz
 Power Consumption: < 50W
 Cabinet: Acrylic body, aluminium bottom

b) Temperature sensor

Range: 200 °C
 Resolution: 0.1 °C
 Temperature sensor probe: mounted on surface of black body
 Rated Input: 220 V/50 Hz or 110 V/60 Hz
 Power Consumption: < 20 W



(b)



KAMALJEETH INSTRUMENTS

ESTD. 1990

Address: No. 610, 5th main, 8th cross Tatanagar, Bangalore - 560092, INDIA

Website: www.kamaljeeth.net, Email: labexperiments@kamaljeeth.net

3 years manufacturing warranty