



Experimental Training Board has been designed specifically for to determine the thermionic work function of tungsten using a directly heated valve and Verification of Richardson's Equation of thermionic emission. The board is absolutely self contained and requires no other apparatus.

Practical experience on this board carries great educative value for Science and Engineering Students.

Object:

01. Determination of the thermionic work function of tungsten using directly heated valve.
02. Verification of Richardson equation of thermionic emission.

Features:

The board consists of the following built-in parts :

01. I.C. Regulated Power Supply for Filament.
 02. I.C. Regulated Power Supply for Plate.
 03. Digital Voltmeter for Filament.
 04. Digital Current meter for Filament.
 05. Digital Voltmeter for Plate.
 06. Digital Current meter for Plate.
 07. Directly Heated Diode.
- * The unit is operative on $230V \pm 10\%$ at 50Hz A.C. Mains.
 - * Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length $\frac{1}{2}$ metre.
 - * Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections /observation of waveforms.
 - * Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

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