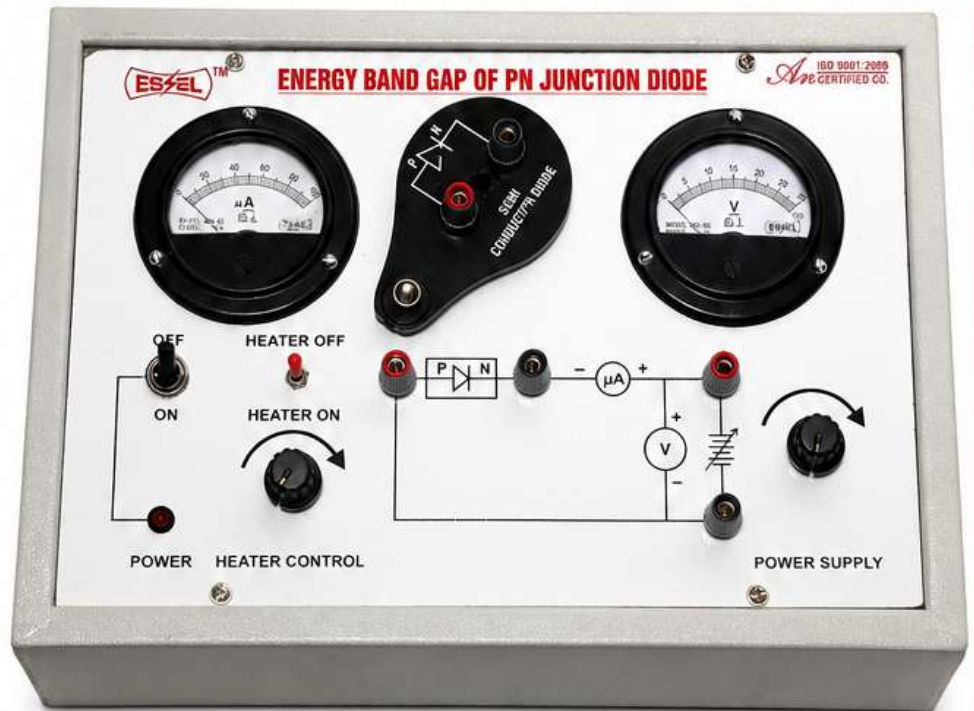


# ENERGY BAND GAP OF PN JUNCTION DIODE

EXPLORE THE SEMICONDUCTOR BEHAVIOR WITH PRECISION.

The Energy Band Gap of PN Junction Diode Apparatus is designed to determine the energy band gap of a semiconductor diode using the forward bias method. Ideal for physics and electronics laboratories, it provides reliable and accurate experimental results.



### ACCURATE MEASUREMENTS

High quality analog meters for precise voltage and current readings.



### BUILT-IN DIODE SOCKET

Provided with a semiconductor diode mount for easy and secure connection.



### TEMPERATURE CONTROL

Inbuilt heater with control to vary junction temperature for better accuracy.



### STURDY & DURABLE CONSTRUCTION

Robust design with high quality components for long life and reliable performance.



### EASY TO USE

User-friendly interface with clear circuit diagram for smooth experimentation.



### IDEAL FOR EDUCATION

Perfect for physics and electronics laboratories, research and academic applications.

## SPECIFICATIONS

Product Name	Energy Band Gap of PN Junction Diode
Method	Forward Bias Method
Diode	Semiconductor Diode (Si) mounted on heat sink
Microammeter	0 - 100 $\mu$ A, Analog
Voltmeter	0 - 30 V, Analog
Power Supply	Variable DC Supply, 0 - 30 V
Heater	Inbuilt with ON/OFF facility
Heater Control	Variable (Rheostat)
Indicator	Power ON, Heater ON
Terminals	4 mm Sockets
Dimensions (mm)	Approx. 265 (L) x 185 (W) x 95 (H)
Weight (Approx.)	2.0 kg
Application	To determine the energy band gap of a semiconductor diode using forward bias method.

## EXPERIMENTS

- ✓ To plot the V-I characteristic of PN junction diode.
- ✓ To determine the energy band gap of a semiconductor diode using forward bias method.
- ✓ To study the effect of junction temperature on forward current.

## APPLICATIONS

- ✓ Physics Laboratories
- ✓ Electronics Laboratories
- ✓ Research & Development
- ✓ Engineering Colleges
- ✓ Educational Institutions



UNDERSTAND SEMICONDUCTORS.  
MEASURE ENERGY BAND GAP WITH CONFIDENCE.



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