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| **Product Name :** | **Product Code :** |
| --- | --- |
| Energy Band Gap of PN Junction Diode Experiment Setup | NLAB-ELECTRONICSAB540002 |

**Description :**

Energy Band Gap of PN Junction Diode Experiment Setup

**Technical Specification :**

Band Gap of Semiconductor

TECHNICAL SPECIFICATIONS:

Digital Meters:

Digital Milli Voltmeter 20V

Digital Milli Ammeter 200uA

Power Supply:

DC Power Supply 0-6V, 150mA

The experiment consists of the following:

Band Gap Arrangement

Oven (up to 110ºC)

Sample : Ge Diode mounted

Thermometer (0-110ºC)

Band Gap Setup

Output Brought Out Through 4mm Banana Plugs.

Four Probe Setup :

Voltmeter Display : 3^2 digit, 7 segment LED,

Voltage Range : (0-20.00V DC),

Current Display: 3^1/2 digit, 7segment LED,

Current Range : 0-200uA DC,

Oven Supply : 45v Ac (Switch position LOW), 60V AC (Switch position HIGH),

Oven Connector : 4 pin, DIN type

Input Voltage : 220V, 50Hz AC

Fuse : 1A, 250V

Oven:

Heating Element : 35ohm, 75watt,

Oven Supply : 45V/60V AC

Oven Connector : 5 pin, DIN type,

Ambient Temperature: 110°C

Fuse: 2A

Thermometer:

Type : Mercury

Temperature Range: 0-110°C

Least Count : 1°C

Length : 300mm approx.

Band Gap Arrangement:

Diode : Ge, 1N60

SALIENT FEATURES:

Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols.

Instruction manual.

Connections are brought out through 4mm BT15 Terminals.

The trainer is housed in Metal cabinet.

Size of the trainer set 13”x6”

# Naugralabequipments

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