



Nvis 6530A Understanding Characteristics of DIAC, TRIAC & SCR is remarkable and frequently used laboratory equipment which is designed to explain fundamentals and working of DIAC, TRIAC & SCR.

By using this product student can understand the basic concept of DIAC, TRIAC & SCR which are the basic devices used in Power Electronics. V-I Characteristics can be drawn by the student which helps them to understand the behavior of these devices easily. This product has suitable in-built power supply and on-board resistor of different values. Breadboard area allows construction of circuits using external components along with on - board resources.

Features

- Generalized design
- In- built Power supply of +15, +35V and -35V
- DPM Based highly precesed on-board Voltmeter & Ammeter
- Breadboard
- Provided with different values of resistances
- 10 turn potentiometer
- Online product turotial

Scope of Learning

- To study and plot the V-I Characteristics of DIAC with Positive and Negative biasing
- Study and observation of Break over voltage (V_{BO}) and V_{BO} Symmetry of DIAC
- To study and plot the V-I Characteristic of TRIAC with Positive and Negative biasing
- Study of Gate Current Triggering of TRIAC
- To study the phenomena of Holding Current and Latching current in TRIAC
- To Study and plot V-I Characteristic of SCR
- Study of Gate Current Triggering of SCR
- To study the phenomenon of holding current and latching current in SCR

Technical Specifications

Mains power supply : 90 - 270V \pm 10%, 50Hz

Fixed DC power supply : +15V, Regulated
+35V, Regulated
-35V, Regulated

Bread Board

Dimension (mm) : 75 x 61 x 10
Distribution strips : 2
Terminal strips : 1
Distribution holes : 200
Terminal holes : 640

DIAC : DB3

TRIAC : BT136

SCR : TYN616

Resistor Bank

M.F.R. 2.2K 1% 1/4W (3 Nos.)
M.F.R. 470E 1% 1/4W (3 Nos.)
M.F.R. 1K 1% 5W (3 Nos.)
M.F.R. 4.7K 1% 5W (3 Nos.)
M.F.R. 1K 1% 10W (3 Nos.)

Variable Resistance bank

5K 10 turn Potentiometer (2 Nos.)

Voltmeter Range : 0V to 99V

Ammeter Range : 0mA to 20mA

Weight : 2.5kg (approximate)

Dimensions (mm) : W 350 x D 280 x H 55