

Product Code . JA-AET-1461

Training Board for Triac



Description

Training Board for Triac

Object:

To study the gate characteristics of a TRIAC in the following modes:

- Mode I+ : i.e. T2 positive with respect to T1 and gate positive with respect to T 1
- Mode I- : i.e. T2 positive with respect to T1 and gate negative with respect to T 1
- Mode III+ : i.e. T2 negative with respect to T1 and gate positive with respect to T 1
- Mode III- : i.e. T2 negative with respect to T1 and gate negative with respect to T 1

To study the terminal characteristics of a TRIAC in the following modes:

- Mode I+ : i.e. T2 positive with respect to T1 and gate positive with respect to T 1
- Mode III+ : i.e. T2 negative with respect to T1 and gate positive with respect to T 1

To study the following applications of TRIAC:

- Triac as a static switch (D.C. control)
- Control of A.C. with A.C. signal
- To measure the holding current of IH. Triac




Feature:

The board consists of following built-in parts:

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- 0-70 V D.C. at 100 mA, regulated Power Supply
 - 0-3V D.C. at 30 mA, regulated Power Supply
 - 55 Volt at 100 mA, fixed A.C. Supply
 - 7 Volt at 30 mA, fixed A.C. Supply
 - TRIAC
 - Three Potentiometers
 - Reset switch
 - Adequate no. of other electronic components
 - Mains ON/OFF switch, Fuse and Jewel light
 - The unit is operative on 230 V $\pm 10\%$ at 50 Hz A.C. Mains
 - Adequate no. of patch cords stackable from rear both ends 4 mm 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

Other Apparatus Required:

- Cathode Ray Oscilloscope 20 MHz
- Digital Current meter DC $3\frac{1}{2}$ Digit having Dual range of 20 mA / 200 mA
- Digital Voltmeter DC $3\frac{1}{2}$ Digit having Dual range of 2 V / 200 V
- Digital Current meter DC $3\frac{1}{2}$ Digit range of 200 mA

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