POWER ELECTRONICS LAB TRAINING MODULES

MARS

Light Intesity Control Using SCR's

ME 791

- **Designed to study light dimmer circuit using SCR & TRIAC.**

Technical Specifications

- 220VAC/ 50Hz operated circuit.
- SCR 2P 4M, Triac BT 136 is used in circuit
- On board control for intensity.
- On board lamp holder.
- Circuit diagram printed on front panel & test points brought out on front panel.

Standard Accessories

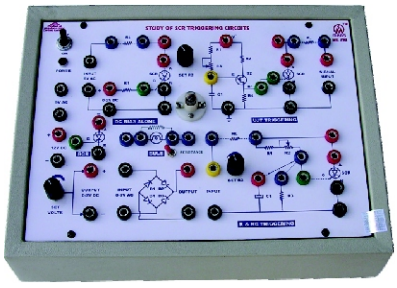
- Power requirement : 230 VAC ±10%, 50Hz.

Optional Accessories

- 220 Volt / 40W Bulb, Patch Chords & Instruction Manual.

SCR Firing Circuit

ME 792



- **SCR Firing Circuit designed to study various type of firing circuit & observe waveforms on CRO.**

Technical Specifications

- Firing circuits used.
  - I) R type triggering circuit .
  - Ii) RC type triggering.
  - Iii) UJT triggering.
  - Iv) DC bias triggering.
- In built IC based DC regulated fixed power supply +12VDC/150mA & 9VAC.
- One variable power supply 0-2VDC /150mA for DC triggering.
- SCR 2P4M based circuit. .
- On board lamp holder.
- Circuit diagram printed on front panel & important test points brought out on front panel.
- Power requirement: 230 VAC ±10%, 50Hz.

Standard Accessories

- 6 Volt / 1/4 W lamp, Patch Chords & Instruction Manual.

Optional Accessories

- Dual Trace CRO 20MHz (ME 3020).
- Digital Multimeter (VC-97).

SCR Commutation Techniques

ME 793

- **SCR Commutation kit designed to study various commutation techniques & observe outputs on LED**

Technical Specifications

- Commutation Techniques used .
  - i) Class A ii) Class B
  - iii) Class C iv) Class D
  - v) Class E vi) Class F
- In built IC based DC regulated fixed power supply +12VDC/300mA & 6VAC/ 300mA
- Circuit diagram printed on front panel & test points brought out on front panel. SCR 2P4M based circuit.

Standard Accessories

- Power requirement: 230 VAC ±10%, 50Hz.
- 6 Volt / 1/4 W lamp, Patch Chords & Instruction Manual.

Optional Accessories

- Patch Chords & Instruction Manual