



It is a learning platform which is very useful for Students to understand the concept of Microcontroller based thyristor firing method & working of single phase controlled rectifier on various load configurations. This kit is provided with inbuilt AC/DC power supplies & exhaustive learning material.

### Key Features

- Built in AC/DC Power Supply
- On board firing circuit using Microcontroller
- Gradual firing angle control upto 180 degree
- Test points to observe output of different blocks
- Sockets to make different connections
- On board AC sources of 0V-15V, 18V0-18V
- On board SCR assembly and load
- On board pulse transformer for isolation
- Microcontroller based firing scheme
- Learnig Scope:
  - Half wave controlled rectifier
  - Full wave controlled mid point rectifier
  - Fully controlled bridge rectifier
  - Common anode configuration of controlled rectifier
  - Common cathode configuration of controlled rectifier
  - Asymmetrical configuration of controlled rectifier

### Technical Specifications

- |                            |   |                                      |
|----------------------------|---|--------------------------------------|
| • On board AC source       | : | 0V-15V, 18V-0V-18V.                  |
| • On board firing circuits | : | Microcontroller based firing circuit |
| • Interconnections         | : | 2mm sockets                          |
| • SCR assembly             | : | 4 SCRs 2P4M, 400V/2A                 |
| • Pulse transformer        | : | PT4503 , 1:1:1                       |
| • Mains Supply             | : | 220V/110V, 50 Hz / 60 Hz             |

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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- Test points : 8 nos
- Load : 270E,5W, L=120mH, DC motor 12V
- Dimensions (mm) : W 420 x D 255 x H 100
- Weight : 1 Kg. (approximately)
- Operating Conditions : 0-40 C, 85% RH
- Included Accessories
- 2mm Patch cord 16" : 18 nos.
- Mains cord : 1 nos

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