

**SINGLE PHASE
SEMI CONVERTER DRIVE
OMEGA TYPE PET-462**



OMEGA TYPE PET-462 Power Electronic Training Board has been designed specifically for the study of Single Phase semi converter Drive.

Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT

01 To Study Single Phase Semiconverter using ramp comparator firing circuit.

FEATURES

The board consists of the following built-in parts:

- 01 6VAC at 100mAAC Power Supply.
- 02 $\pm 12V$ DC at 100mA fixed regulated Power Supply.
- 03 Two SCR and Six Diode
- 04 Two Op-Amp's. IC
- 05 Quad, Ex-OR gate IC.
- 06 Triple, 3 input AND gate IC.
- 07 Hex inverter gate IC.
- 08 Quad, two input AND gate IC.
- 09 Two NPN Transistor.
- 10 Firing angle control potentiometer.
- 11 Pulse Transformer 1: 1.
- 12 Two $3\frac{1}{2}$ digital panel meter (DPM) for measurement of voltage.
- 13 Adequate no. of other Electronic Components.

- 14 Mains ON/OFF switch (MCB), Fuse and Jewel light.
- 15 MCB 2Amp 1Pole.
- 16 DC Shunt Motor.
Rating : $\frac{1}{2}$ HP
RPM : 1500 (No Load)
- 17 The unit is operative on 230VAC $\pm 10\%$ at 50Hz.
- 18 Good Quality, reliable Shrouded socket are provided at appropriate places on panel for connections/ observation of waveforms.
- 19 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 20 Weight (Board) : 5.700 Kg. (Approx.)
- 21 Weight (Motor) : 20.400 Kg. (Approx.)
- 22 Dimension : W415 x H 165 x D315.

LIST OF ACCESSORIES:

- 01 Shrouded Patch cord 4mm length 50cm Red ..08
- 02 Shrouded Patch cord 4mm length 50cm Black08
- 03 Shrouded Patch cord 4mm length 100cm Red 02
- 04 Shrouded Patch cord 4mm length 100cm. Black03

OTHER APPARATUS REQUIRED (Not Included):

- 01 Dual trace CRO 20MHz OMEGA TYPE CRO-20

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS