

OMEGA TYPE ETB-272 Experimental Training Board has been designed specifically for the study of various Applications of the Timer IC 555. Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT:-

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| 01 To Study Pulse Generator using IC-555. | |
| 02 To Study Timer using IC-555. | |
| 03 To Study Sequential Timer using IC-555. | |
| 04 To Study Pulse Width Modulator (PWM) using IC-555. | |
| 05 To Study Time Delay Circuits using IC-555. | |
| 06 To Study Burglar Alarm Using Timer IC-555 & Breaking of wire and LDR. | |
| 07 To Study Burglar Alarm Using Timer IC-555 Breaking of Wire & Photo Transistor | |
| 08 To Study Burglar Alarm Using Timer IC-555 breaking of wire and Photo Diode. | |
| 09 To Study Light/Dark Detection Using Timer IC-555 & LDR. | 09 Capacitors Section containing 11 Capacitors of different values. |
| 10 To Study Rain Alarm Using Timer IC-555 & Rain Sensor. | 10 Semiconductor Section that contains Phototransistor, Photodiode, LDR, IR LED, Two LED'S, TOSP-1738, Rain Sensor, Two Diode & Three Transistors. |
| 11 To Study DC Motor Control By PWM Using Timer IC-555 & Motor Driver IC L293D. | 11 Buzzer, Push Button Switch and SPDT Switch. |
| 12 To Study LED Flasher Circuit Using Timer IC-555. | 12 Mains ON/OFF switch, Fuse and Jewel light. |
| 13 To Study Analog Light wave Transmitter/Receiver Using Timer IC-555, IR LED & TSOP1738 . | 13 The unit is operative on 230V $\pm 10\%$ at 50Hz A.C. Mains. |
| | 14 Weight : 3.800 Kg |
| | 15 Dimension : W 415 x H 165 x D315 |

FEATURES

The board consists of the following built-in parts :

- 01 Pulser capable of generating a negative going pulse.
- 02 Pulse Generator with frequency of 2 KHz $\pm 10\%$.
- 03 Sine Wave Generator with frequency of 100 Hz $\pm 10\%$.
- 04 5 & 9V D.C. at 100 mA, IC Regulated Power Supply internally connected.
- 05 LED driver circuit for time delay circuit.
- 06 DC Motor with IC L293D Motor Driver.
- 07 Two Timer IC'S 555.
- 08 Resistor Section containing 22 Resistors of different values and one Potentiometer.

LIST OF ACCESSORIES :

- 01 Patch cord 2mm-multipin 50 cm. Red.... 10
- 02 Patch cord 2mm-multipin 50 cm. Black...15

OTHER APPARATUS REQUIRED

- 01 Cathode Ray Oscilloscope 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.

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