



**OMEGA TYPE FO-002** Fibre-Optic Simplex Digital Transceiver Trainer has been designed specifically for the study of characteristics & propagation delay in digital fibre optic transmission systems.

Practical experience on this board carries great educative value for science & engineering students.

#### OBJECT

- 01 Design & study of a fibre-optic Digital link.
- 02 Study of Rise-Time and Fall-Time distortions
- 03 Study of Propagation Delay.

#### FEATURES

The board consists of the following built-in parts:

- 01 Two isolated IC Regulated D.C. Power Suppliers.
- 02 Timer IC for Square Wave Frequency Generator 100Hz - 10KHz App.
- 03 Three potentiometers to vary  $R_{TH}$  (Threshold Resistance),  $R_{IN}$  (Input Resistance) and frequency.
- 04 Fibre Optic Digital Transmitter @ 660nm
- 05 Fibre Optic Digital Receiver.
- 06 One-metre PMMA fibre patchcord.
- 07 Adequate no of other electronic components.
- 08 Mains ON/OFF switch, Fuse and Jewel light.

09 The unit is operative on 230V  $\pm 10\%$  at 50Hz A.C. Mains.

10 Adequate no. of patch cords stackable 4mm spring loaded plug length 50cm.

11 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of swaveforms.

12 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

13 Weight : 3 Kg. (Approx)

14 Dimension : W 340 x H 125 x D 210

#### OTHER APPARATUS REQUIRED :

- 01 Digital Multimeter OMEGA TYPE DMM-201.
- 02 Cathode Ray Oscilloscope 20MHz

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

## OMEGA ELECTRONICS

**Works:**  
28E & F, Malviya Industrial Area,  
Jaipur-302 017 (INDIA)  
Phone: 0141-2751559

E-mail : info@omegaelectronics.net  
omegajipur62@gmail.com

**Marketing Division:**  
B-28, Fateh Singh Scheme, Opp. Rajputana  
Palace Sheraton, Jaipur-302006 (INDIA)  
Phone : 091-141-2375647, 2379223

[www.omegaelectronics.net](http://www.omegaelectronics.net)