

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.
  03. Three potentiometers to vary R (Threshold Resistance), R (Input Resistance) and frequency.
  04. Fibre Optic Digital Transmitter @ 660nm
  05. Fibre Optic Digital Receiver.
  05. Adequate no of other electronic components.
  06. Mains ON/OFF switch, Fuse and Jewel light.
- \* The unit is operative on 230V  $\pm$ 10% at 50Hz A.C. Mains.
  - \* Adequate no. of patch cords stackable 4mm spring loaded plug length 1/2 metre.
  - \* Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
  - \* Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

**Other Apparatus Required:**

- \* Digital Multimeter Order Code - 16901
- \* Cathode Ray Oscilloscope 20MHz

Note: Specifications are subject to change.

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