

**Product Name :**

Advanced Fiber Optic Digital Transceiver Trainer & Kit for Electrical Lab for Vocational Training and Didactic Labs

**Product Code :**

FBRO-0004



**Description :**

Equipment for Education, Engineering and Vocational Training - Advanced Fiber Optic Digital Transceiver Trainer & Kit for Electrical Lab - Fiber Optic Digital Transceiver Trainer has been designed specifically for the study of encoding methods used in digital fibre Optic. transmission system. Practical experience on this board carries great educative value for Science & Engineering Students.

**Object:**

- Design and study of a Fibre-optic digital link
- Study of rise-time and fall-time distortions
- Study of propagation delay.
- Encoding methods for fibre-optic digital transmission
- Base band or Non Return to Zero (NRZ) Transmission
- Return to Zero coding (RZ)
- Non Return to zero inverted coding (NRZI)
- Biphase Coding
- Manchester Coding.

**Features**

The board consists of the following built-in parts:

- Fiber Optic digital transmitter @ 660nm
- Fiber Optic digital receiver
- Two Potentiomet
- Two Isolated IC regulated D.C. power supplies
- ers to vary, RIN (input resistance) of receiver and RTH (Threshold resistance) of receiver.
- Encoder IC
- Decoder IC
- Two Crystals
- Two reset switches resetting encoder and decoder
- Adequate no of other electronic component
- 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  $\frac{1}{2}$  meter.  
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: Cathode Ray Oscilloscope 20MHz

## Naugra Export

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