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Product Name :	**Product Code :**
Advanced Fiber Optic Digital Transceiver Trainer & Kit for Electrical Lab for Vocational Training and Didactic Labs	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 ±10% at 50Hz A.C. Mains
Adequate no. of patch cords stackable 4mm spring loaded plug length ½ 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

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