

**Product Name :**

Fiber Optic Simplex Analogue Transceiver Trainer & Kit for Electrical Lab for Vocational Training and Didactic Labs

**Product Code :**

FBRO-0001

**Description :**

Equipment for Education, Engineering and Vocational Training - Fiber Optic Simplex Analogue Transceiver Trainer & Kit for Electrical Lab - Fiber Optic Simplex Analogue Transceiver Trainer has been designed specifically for the study of a typical linear intensity modulation system for analogue signal transmission. Practical experience on this board carries great educative value for Science & Engineering Students. Object: To study ac characteristics of a Linear Intensity Modulation system : Gain characteristics of a fibre optic Linear Intensity Modulation System  $V_{in} (ac)$  Vs  $V_o (ac)$  for fixed carrier power  $P_o$  and signal frequency Frequency Response of ac fibre-Optic Linear Intensity Modulation System.  $V_{out} (ac)$  Vs  $f_o$  at fixed carrier power  $P_o$  and  $V_{in} (ac)$ . Gain-Band width Product of a fibre Optic Linear Intensity Modulation Receiver. Gain Vs Bandwidth for fixed  $V_{in}$ . Features: The board consists of the following built-in parts: IC Regulated D.C. Power Supply. Fiber-Optic Transmitter Fibere-Optic Receiver Potentiometer to vary the current of LED in Transmitter and Photo transistor in receiver. Adequate no of other electronic components. 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  $\frac{1}{2}$  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: AF/RF Generator 10Hz to 1MHz Order Code - 16902 Digital Multimeter Order Code - 16901 Cathode Ray Oscilloscope 20MHz

## Naugra Export

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