

Product Name :
Fibre Optic Simplex Analogue Transceiver Trainer

Product Code :
NLAB-ELECTRONICSAB240008

Description :

Fibre Optic Simplex Analogue Transceiver Trainer

Technical Specification :

Fibre-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.

Fibre-Optic Transmitter

Fibre-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 +10% at 50Hz A.C. Mains.

Adequate no. of patch cords stackable 4mm spring loaded plug length ½ metre.

Weight : 3 Kg. (Approx)

Dimension : W 340 x H 110 x D 210

Other Apparatus Required:

AF/RF Generator 10Hz to 1MHz

Digital Multimeter

Cathode Ray Oscilloscope 20MHz

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