

Product Name :
Advanced Fibre Optic Analogue Transceiver Trainer

Product Code :
NLAB-ELECTRONICSAB240011

Description :

Advanced Fibre Optic 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 Trainer carries great educative value for Science & Engineering Students.

Object:

To determine the Numerical Aperature of optical fibre.

Losses in Optical Fibres at 660nm and 850nm and other cables.

Study of E/O Characteristic of Fibre Optic 660nm and 850nm.

Study of O/E Characteristic of Fibre Optic photo transistor.

Design and study of a linear Fibre Optic Intensity Modulation system for analog transmission :

Gain characteristics of a Fibre Optic Linear Intensity Modulation System.

Frequency Response of a Fibre Optic Linear Intensity Modulation System.

Waveform distortion in a Fibre Optic Linear Intensity Modulation System.

Gain-Band width product of a fibre optic linear intensity Modulation System.

Features:

The trainer consists of the following built-in parts:

IC regulated D.C. power supply.

Fibre-Optic Analogue Transmitter @ 660nm

Fibre-Optic Analogue Transmitter @ 850nm

Fibre-Optic Receiver.

One-metre PMMA Fibre patch cord.

Five-metre PMMA Fibre patch cord.

In-line SMA adaptor.

Two potentiometer to vary forward current of LED in Transmitter & current of photo transistor in receiver.

SPDT switch for selecting wavelengths 660nm and 850nm.

NA JIG with scale marked on it to measure length.

Mandrel.

NA measuring Scale to measure width of Fibre Optic's LED.

Adequate no of other electronic componets.

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.

Weight : 3 Kg. (Approx)

Dimension : W 340 x H 110 x D 210

Other Apparatus Required

AF/RF Generator 10Hz to 1MHz

Digital Fibre-Optic Power meter9

Digital Multimeter

Cathode Ray Oscilloscope 20MHz

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