

Product Name :

Fiber Optic Trainer Kit for Numerical Aperture and Fiber Loss Measurement for Electrical Labs for Vocational Training and Didactic Labs

Product Code :

FBRO-0005



Description :

Equipment for Education, Engineering and Vocational Training - Fiber Optic Trainer Kit for Numerical Aperture and Fiber Loss Measurement for Electrical Labs - Fiber Optic Trainer has been designed specifically for the study of Numerical Aperture and Fibre Loss Measurement. Practical experience on this Trainer carries great educative value for Science & Engineering Students.

Object:

Study of :

Fibre Optic Transmitter and Receiver

Numerical Aperture of PMMA Fibre .

Loss in 1 Mtr / 5 Mtr. PMMA Patch Chords.

Electrical - Optical Converter Characteristics.

Optical to Electrical Converter Characteristics.

Intensity Modulation System.

Features:

The Trainer consists of the following built-in parts:

IC regulated D.C. Power Supply.

Fibre-Optic Analogue Transmitter @ 660 nm

Fibre-Optic Analogue Transmitter @ 850 nm

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 Phototransistor in receiver.

SPDT switch for selecting wavelengths 660 nm and 850 nm.

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.

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.

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 Meter

Digital Multimeter

Cathode Ray Oscilloscope 20MHz.

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