

Product Name :

Fibre-Optic Trainer for Numerical Aperture and Fibre Loss Measurement

Product Code :

ALABS-A36-013

**Description :****Fibre-Optic Trainer for Numerical Aperture and Fibre Loss Measurement**

and Fibre Loss Measurement 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
- Study of Numerical Aperture of PMMA Fibre
- Study of Loss in 1 Mtr / 5 Mtr. PMMA Patch Chords
- Study of Electrical – Optical Converter Characteristics
- Study of Optical to Electrical Converter Characteristics
- Study of 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



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