

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 :

01. 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,
02. Frequency Response of ac fibre-Optic Linear Intensity Modulation System. $V_{out}(ac)$ Vs f_o at fixed carrier power P_o and $V_{in}(ac)$.
03. 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:

01. IC Regulated D.C. Power Supply.
 02. Fibre-Optic Transmitter
 03. Fibre-Optic Receiver
 04. Potentiometer to vary the current of LED in Transmitter and Photo transistor in receiver.
 05. Adequate no of other electronic components.
 06. 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

Note: Specifications are subject to change.

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