

FIBER OPTIC ADVANCED DIGITAL TRANSMITTER RECEIVER TRAINER

MODEL - FOT102AD

This trainer has been designed with a view to provide practical and experimental knowledge of a general circuit of advanced digital transmission using Fiber Optic Cable a SINGLE PCB.



SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.

2. Built in IC based power supply.

Transmitter
2 No. Fiber optic LED's (Peak Wavelength of emission 660mm)
Receiver
2 No. Fiber optic Avalanche Photo diode (APD). Photo Detectors

5. Modulation Technique : a. Direct Amplitude Modulation & Demodulation

b. Frequency Modulation & Demodulationc. Pulse width Modulation & Demodulation

6. Drivers : Analog & Digital for both channels

a. Analog Bandwidthb. Digital Bandwidthc. 350 KHzd. 2.5 MHz

7. Function Generator : a. 1 KHz Sine Wave (Amplitude adjustable)

b. 1 KHz Square Wave (TTL)

8. All parts are soldered on single PCB with complete circuit diagram Screen printed.

9. Standard Accessories : 1. A Training Manual.

2. Fiber Optic Cable - 1 mtr 2Nos.

EXPERIMENTS

- 1. To transmit and receive analog signal using fiber optic cable.
- 2. To transmit and receive digital signal using fiber optic cable.
- 3. To transmit and receive Frequency modulated signal using fiber optic cable.
- 4. To transmit and receive Pulse width modulated signal using fiber optic cable.
- 5. To transmit and receive voice signal using fiber optic cable.
- 6. To transmit and receive Computer signal using fiber optic cable.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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Dealer:-