This trainer has been designed with a view to provide practical and experimental knowledge of a general circuit of Fiber Optic Communication on a SINGLE P.C.B.

**SPECIFICATIONS**

1. Transmitter : 2 No. Fiber optic LED’s (Peak Wavelength of emission 660mm)
2. Receiver : 2 No. Fiber optic Photo Detectors
3. Modulation Technique :
   a. Amplitude Modulation & Demodulation
   b. Frequency Modulation & Demodulation
   c. Pulse width Modulation & Demodulation
4. Drivers :
   Analog & Digital for both channels
   Analog Bandwidth: 350 KHz
   Digital Bandwidth: 2.5 MHz
5. Function Generator :
   1 Khz Sine Wave (Amplitude adjustable)
   1KHz Square Wave (TTL)
   2KHz Square Wave (TTL)
6. PC-PC Communication : using 2 channels through RS-232
7. Sampling pulse generator.
8. Digital multiplexer/demultiplexer.
10. Fiber optic Cable :
    a. Connector Type Standard S.M.A.
    b. Sub miniature assembly duly polished fiber at both ends for maximum Transmission & perfect round spot for numerical aperture measurement
11. Core refractive index : 1.492
    Clad refractive index : 1.406
12. Power Supply : 230V +/-10%, 50 Hz

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:-
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 analog signal using fiber optic cable:
4. To transmit and receive Pulse width modulated analog signal using fiber optic cable:-
5. To transmit and receive Computer signal using fiber optic cable:
6. To Multiplex and Demultiplex two digital channel using fiber optic cable.