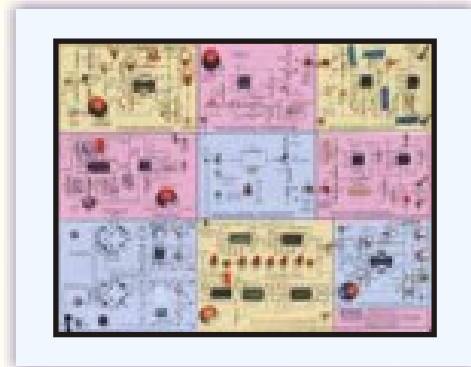




FIBER OPTICS LINK 'B' COMMUNICATION TRAINER MODEL - FOTLINKB

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 660nm) |
| 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. | | |
| 9. Low pass filter/Data squarer. | | |
| 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:-

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 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.