



# FIBER OPTIC VOICE LINK USING PWM

## MODEL - FOT107V

This trainer has been designed with a view to provide practical & experimental knowledge of a general circuit of voice link fiber optic using PWM.



### SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply.
3. On Board AF Modulating signal generator - Sinewave  
Frequency Range : 1KHz & 2KHz  
Amplitude : 0 to 5 Vpp.
4. On Board Input Audio amplifier with Volume control for modulating external signal from Mike or Tape recorder.
5. On Board Output Audio amplifier with speaker & Volume Control.
6. Modulator Section : PWM Modulator
7. Demodulator Section : Low Pass Filter-4th order Butter worth- 3.4KHz
8. Transmission Source : Fiber Optic LED - 950 nm
9. Receiver Source : Fiber Optic Avalanche Photo diode (APD).
10. All parts are soldered on single pin TAGS on single PCB with complete circuit diagram screen-printed.
11. Standard Accessories :
  1. A Training Manual
  2. Connecting Patch cords.

### EXPERIMENTS

1. To modulate Pulse Width signal using fiber optic cable.
2. To demodulate Pulse Width 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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