



MODEM TRAINER

MODEL - MODEM100

This trainer has been designed with a view to provide practical /experimental knowledge of a general circuit of MODEM on SINGLE PCB.



SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply.
3. Built in Square wave generator
Frequency range : 10 Hz to 500 Hz
4. Speed of operation : 50 Bauds Maximum.
5. Input/Output DATA level : +12V for 1 level.
-12V for 0 level.
6. FSK frequencies : 1. 1000 Hz for 0 level
2. 1700 Hz for 1 level
7. Operating mode : Half duplex
8. Modulator Type : Voltage controlled Oscillator - VCO.
9. Demodulator Type : Tone Decoder
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 study theory of FSK Modulation & Demodulation.
2. To generate FSK signal using VCO.
3. To amplify and transmit generated FSK signal through LS.
4. To amplify received signal through LS.
5. To separate two tone signals using Active narrow band filter and notch filters.
6. To demodulate using tone decoder.
7. To observe FSK modulated output for different baud rate.
8. To understand half-duplex and full duplex logic circuit.

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