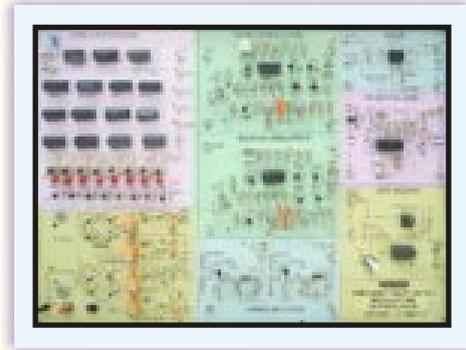




# FREQUENCY SHIFT KEYING MODULATION/ DEMODULATION SYSTEM TRAINER

MODEL - COM115

This trainer has been designed with a view to provide practical/experimental knowledge of FSK Modulation /Demodulation technique as practically implemented in Digital Communication systems on a SINGLE PCB.



## SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply.
3. On Board Modulating Digital Data signal generator to generate any binary input word with Bit clock & Word clock.  
Word Length : 8 Bits.  
Word Clock Frequency : 8 KHz to 12 KHz.  
Data Format : NRZ & Bipolar NRZ.
4. On Board Voltage controlled Oscillator.  
Frequency Range : 50KHz to 150KHz.
5. Modulator Type : Using VCO.
6. Demodulator Type : Resonant Phase shift detector.
7. FSK frequencies : 100KHz for 1 level  
50kHz for 0 level
8. All parts are soldered on single pin TAGS on single PCB of size 14" x11" with complete circuit diagram Screen-printed.
9. Standard Accessories : A Training Manual.  
Connecting Patch cords.

## EXPERIMENTS

1. To study theory of FSK Modulation & Demodulation.
2. To generate FSK signal using VCO.
3. To demodulate using Resonant Phase shift detector.
4. To observe FSK modulated output for different input binary codes.
5. To see the effect on FSK modulated output by varying the frequency and amplitude of carrier oscillator.

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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