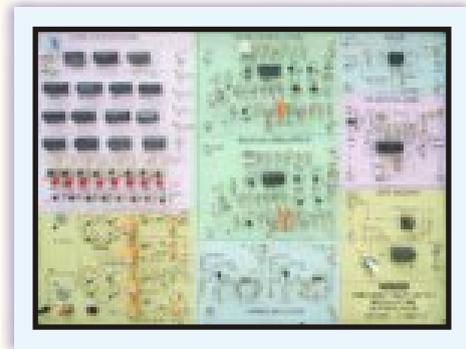




# FREQUENCY SHIFT KEYING MODULATION/ DEMODULATION TRAINER

MODEL - COM115K

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 : 10 KHz  
Data Format : NRZ
4. FSK frequencies : 640KHz for 1 level  
320KHz for 0 level
5. Modulator Type : Using Two ASK
6. Demodulator Type : PLL
7. All parts are soldered on single pin TAGS on single PCB of size 12" x9" with complete circuit diagram Screen-printed.
8. Standard Accessories : 1. A Training Manual.  
2. Connecting Patch cords.

## EXPERIMENTS

1. To study theory of FSK Modulation & Demodulation.
2. To generate FSK signal and demodulate it in simulated channel.
3. To observe FSK waveform on CRO.
4. To observe spectrum of FSK on spectrum analyser.
5. To determine essential bandwidth
6. To analyse reception quality by cross co-relation characteristics and measure bit error rate in presence of channel noise by Matlab Simulation.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

**Sigma Trainers and Kits**  
E-113, Jai Ambe Nagar,  
Near Udgam School,  
Thaltej,  
AHMEDABAD - 380054.  
INDIA.

**Phone(O): +91-79-26852427/ 26850829**  
**Phone(F): +91-79-26767512/ 26767648**  
**Fax : +91-79-26840290/ 26840290**  
**Mobile : +91-9824001168**  
**Email : sales@sigmatrainers.com**  
**: sigmatrainers@sify.com**  
**Web : www.sigmatrainers.com**

**Dealer:-**