



# FSK MODULATION DEMODULATION IN PRESENCE OF NOISE MODEL - COM115Z

This trainer has been designed with a view to provide practical/experimental knowledge of Generation & Reception of FSK in the presence of Noise.



## SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. On Board Digital Data generator to generate any binary word of  
Word Length : 8 Bits.  
Word Clock Frequency : 10 KHz  
Data Format : NRZ.
3. On Board synchronized RF Carriers  
Frequencies : 320KHz & 640KHz.
4. Gaussian Noise Generator : 0 to 1Vrms variable amplitude.
5. Modulator Type : Using two Balanced Modulators with two ASK and adder
6. Demodulator Type : PLL detector.
7. Matched Filter : Integrate and Dump Filter
8. Decision Threshold : Comparator
9. All parts are soldered on single PCB with multicolor Section wise blocks and complete circuit diagram  
Screen-printed with true value of part. The PCB provided with multi-colour 2mm Testing points and acrylic  
cover for safety in wooden box.
10. 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 the presence of Noise.
4. To measure signal to Noise ratio of FSK signal using Spectrum analyzer or Selective level meter
5. To observe FSK output for different input binary codes on spectrum analyzer.

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

**Sigma Trainers**  
**E-103, Jai Ambe Nagar,**  
**Near Udgam School, Thaltej,**  
**AHMEDABAD - 380054.**

**Phone : 079-26852427 / 26767512**  
**Fax : 079-26840290 / 26759661**  
**ISDN : 079-26859162 / 26853758**  
**Email : sales@sigmatrainers.com**  
**: sigmatrainers@sify.com**  
**Web : www.sigmatrainers.com**

**Dealer:-**