SIGMA

GENERATION & RECEPTION OF FSK WITH NOISE

MODEL - COM115N

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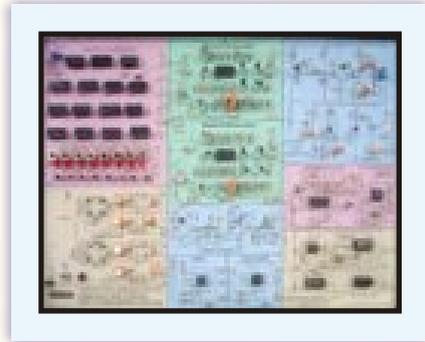
SPECIFICATIONS

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.	Modulator Type	:	Using two Balanced Modulators with two ASK and adder
5.	Demodulator Type	:	PLL detector.
6.	Gaussian Noise	:	0 to 1V rms variable amplitude.
7.	Matched Filter	:	Integrate and Dump Filter
8.	Decision Threshold	:	Comparator
9.	Standard Accessories	:	1. A Training Manual.
			2. Connecting Patch cords.

EXPERIMENTS

1. To study theory of FSK Modulation & Demodulation.
2. To generate FSK signal
3. To demodulate using PLL in the presence of Noise.
4. To observe FSK modulated output for different input binary codes.
5. To measure Signal to Noise Ratio of FSK signal using Selective level meter or Spectrum analyser.

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