



# FREQUENCY HOPING SPREAD SPECTRUM MODULATION TRAINER MODEL - FHSS100K

This trainer has been designed with a view to provide practical / experimental knowledge of Frequency hopping Spread Spectrum Modulation/Demodulation technique as practically implemented in Digital Communication systems.



## SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply.
3. On Board Pseudo-Noise Random Sequence (P.R.B.S.) code generator.
4. On Board Modulating Digital Data signal generator to generate any binary input word with Bit Clock & Word clock.  
Word Length : 8 Bits.  
Bit Clock Frequency : 8 KHz to 12 KHz.  
Data Format : NRZ.
5. Built-in Sinusoidal Carrier signal generator.
6. Modulator Type  
FH Modulator : M-ray F.S.K modulator
7. Demodulator Type  
FH Demodulator : Non-Coherent M-ary Detector.
8. Standard Accessories :
  1. A Training Manual.
  2. Connecting Patch cords.

## EXPERIMENTS

1. To study theory of Frequency Hopping Spread Spectrum Modulation & Demodulation.
2. To generate FHSS modulated signal and demodulate it.
3. To study spreading and dispersing
4. To study effect of channel noise using MATLAB simulation
5. To study single tone interference.

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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