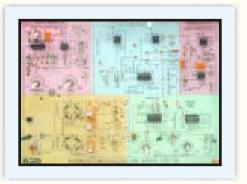


## SAMPLING & QUANTIFICATION TRAINER

MODEL-COM1050

This trainer has been designed with a view to provide practical & experimental Knowledge of three different types of Sampling process on a SINGLE P.C.B of size 12 "x 9".



## **SPECIFICATIONS**

1. Power supply requirement : 230V AC, 50 Hz.

2. Built in IC based power supply.

3. On Board AF Modulating signal generator - Sine wave Frequency Range : 300Hz to 3.4KHz Amplitude : 0 to 5 Vpp.

4. On Board Sampling Pulse signal generator.

Frequency Range : 2 KHz to 32 KHz.

Pulse width : Variable

5. Types of sampling processes : Natural sampling, Flattop sampling, Sample and Hold.

6. Demodulator Sections : Low Pass Filter

7. Standard Accessories : 1. A Training Manual.

2. Connecting Patch cords.

## **EXPERIMENTS**

- 1. To study theory of different types of Sampling process.
- 2. To generate PAM signal by flattop sampling.
- 3. To generate PAM signal by Natural sampling.
- 4. To generate PAM signal by S/H circuit.
- 5. To demodulate using Low Pass Filter.
- 6. To see the effect on PAM modulated output by varying the amplitude and frequency of modulating signal.
- 7. To vary Pulse width of Sampling frequency and see the effect on amplitude of S/H and reconstructed signal.
- 8. To vary frequency of Sampling pulse generator and see the aliasing effect.
- 9. To prove Nyquist's Sampling Theorem.

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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