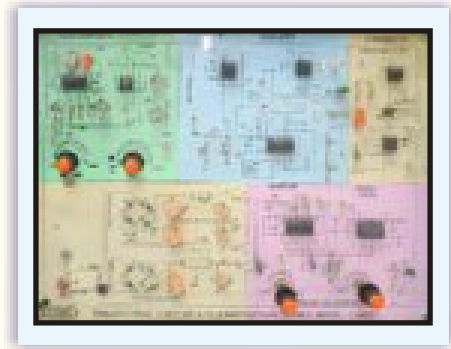




ANALOG SIGNAL SAMPLING & RECONSTRUCTION TRAINER

MODEL - COM201L

This trainer has been designed with a view to provide practical and experimental Knowledge of three different types of Sampling process as practically implemented in Digital Communication systems on a SINGLE P.C.B.



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 : 1KHz /2KHz
Amplitude : 0 to 5 Vpp.
4. On Board Sampling Pulse signal generator.
Frequency Range : 2 KHz to 32 KHz.
5. Types of sampling processes :
 1. Natural sampling.
 2. Flattop sampling.
 3. Sample and Hold.
6. Demodulator Sections : Low Pass Filter - Cut off freq. - 3.4 KHz.
7. Standard Accessories :
 1. A Training Manual.
 2. Connecting Patch cords.

EXPERIMENTS

1.
 - a. To generate Natural sampled PAM signal and demodulate it
 - b. To verify Nyquist's Sampling Theorem
 - c. To understand and observe the aliasing effect
2. To generate Sample/Hold (S/H) PAM signal and demodulate it
3. To generate flattop sampled PAM signal and demodulate it

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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