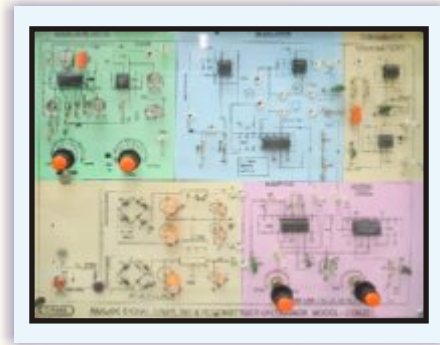




# ANALOG SIGNAL SAMPLING & RECONSTRUCTION TRAINER

## MODEL-COM201

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. Crystal Frequency	:	6.4 MHz
2. Sampling Frequency	:	2,4,8,16,& 32KHz ( Switch Selectable)
3. On Board Generator	:	Synchronized 1KHz sine wave (5Vpp)
4. Duty Cycle	:	0-90% in Decade steps (switch Selectable)
5. L.P. Filters	:	Butter worth 2nd & 4th order, filter cutoff Frequency 3.4KHz
6. Test Point	:	More than 40
7. Interconnection	:	4mm Socket
8. Power	:	220V, $\pm 10\%$ 50/60Hz, 3VA (approx)
9. Accessories	:	Manuals, Set of Patch Cord, Line Cord

### EXPERIMENTS

1. Study of Signal Sampling and reconstruction Technique.
2. Study of aliasing effect on Reconstruction of signal due to various sampling Frequencies.
3. Study of effect on Amplitude of reconstruction signal by varying Sampling Pulse Duty Cycle in Sample & sample and hold output.
4. Comparison of 2nd and 4th Order Butterworth filters
5. Signal sampling & reconstruction using External sampling input.

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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