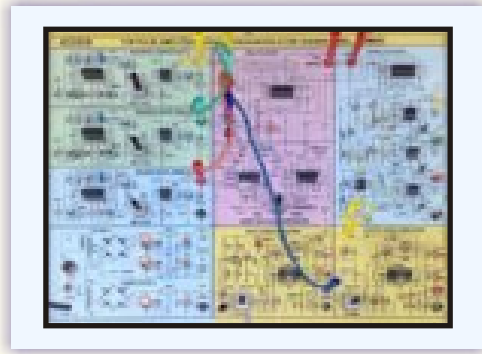




TDM PULSE AMPLITUDE MODULATION/ DEMODULATION TRAINER MODEL- COM202L

This trainer has been designed with a view to provide practical and experimental knowledge of 4 channel Time Division Multiplexing Demultiplexing using PAM technique on a Single PCB.



SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply : +15V, -15V, +5V.
3. On Board three Input signals generators.
Sine wave : Frequency 250 Hz.- 2 Vpp
Triangular wave : Frequency 500Hz. - 1 Vpp
Square wave : Frequency 1KHz - 1.5 Vpp.
4. On Board Sampling Pulse signal generator.
Frequency Range : 2 KHz to 32 KHz.
5. On Board Input Audio amplifier with Volume control for modulating external signal from Mike or Tape recorder.
6. On Board Output Audio amplifier with speaker & Volume Control.
7. Modulator Sections : Multiplexer
8. Demodulator Sections : Demultiplexer & Low Pass Filter
9. Standard Accessories : 1. Experimental and Circuit Description Manual.
2. Connecting Patch cords. (6 Nos.)

EXPERIMENTS

1. To study theory of Time Division Multiplexing & De-multiplexing.
2. To generate TDM signal by using Multiplexer and S/H process.
3. To generate Voice signal TDM using mike.
4. To demultiplex TDM signal using CMOS switch and Low Pass Filter.
5. To see the effect on TDM output by varying the amplitude of modulating signals.
6. To vary Sampling frequency and see the effect on modulated and reconstructed signal.
7. To observe Cross-talk effect in TDM.
8. 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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