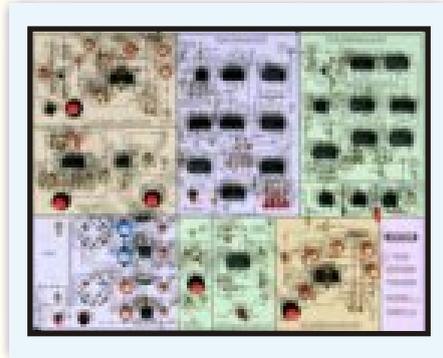




# PULSE CODE MODULATION/ DEMODULATION TRAINER

MODEL- COM110

This trainer has been designed with a view to provide practical and experimental knowledge of Pulse Code Modulation/Demodulation.



## 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 : 300 Hz to 3.4 KHz  
Amplitude : 0 to 5 Vpp.
4. On Board Sampling Pulse signal generator.  
Frequency Range - Fast Mode : 1.2 to 1.4Mhz  
Frequency Range - Slow Mode : 0.8Hz to 1.2Hz
5. Built in variable DC power supply (0 to  $\pm 5V$ ) to see the effect of DC on the output waveform.
6. On Board Output Amplifier with volume control for modulation external signal from Mike or Tape Recorder
7. On Board Output Audio Amplifier with speaker & Volume control
8. LED indicators for PCM output bits.
9. Modulator Sections : Counter & Comparator, Encoder
10. Demodulator Sections : Decoder and Low Pass Filter.
11. Standard Accessories : 1. A Training Manual and Connecting Patch cords.

## EXPERIMENTS

1. To study theory of Pulse Code Modulation & Demodulation.
2. To generate and demodulate PCM signal
3. To see the effect on PCM demodulated output by changing bit pulse either 3 bits or 4 bits.
4. To see the effect of DC signal on PCM modulation.

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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