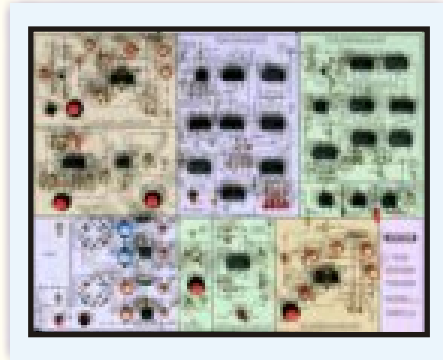




PULSE CODE MODULATION/ DEMODULATION TRAINER

MODEL- COM110K

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. Gaussian Noise generator section
6. Matched Filter and Comparator
7. LED indicators for PCM output bits.
8. Modulator Sections : Counter & Comparator, Encoder
9. Demodulator Sections : Decoder and Low Pass Filter.
10. 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.
5. To measure the bit rate, bandwidth requirement and distortion factor of the reconstructed signal in presence of channel noise.

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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