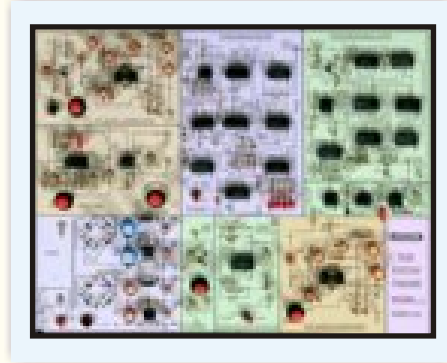




PCM TRAINER WITH QUANTIZATION NOISE MEASUREMENT MODEL - COM110N

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 : 300Hz 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. LED indicators for PCM output bits.
6. Modulator Sections : Counter & Comparator, Encoder
7. Demodulator Sections : Decoder and Low Pass Filter.
8. Standard Accessories : 1. A Training Manual
2. Connecting Patch cords.

EXPERIMENTS

1. To study theory of Pulse Code Modulation & Demodulation.
2. To generate and demodulate PCM signal
3. To observe and Plot quantization curve
4. To calculate Bit rate.
5. To measure quantization Noise.
6. To measure Signal to Noise ratio using Selective level meter or Spectrum analyser
7. To see the effect on PCM demodulated output by changing bit pulse either 3 bits or 4 bits.
8. 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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