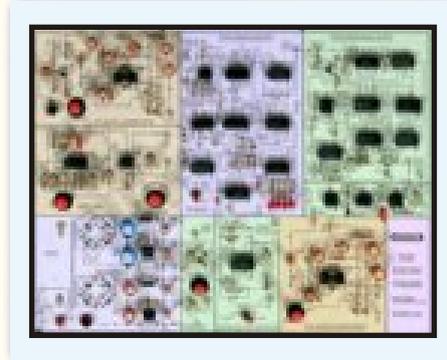




STUDY OF PCM WITH UNIFORM WITH QUANTIZATION NOISE MEASUREMENT

MODEL - COM110P1

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. Uniform Quantization : 3 bit o and 4 bit
6. LED indicators for PCM output bits.
7. Modulator Sections : Counter & Comparator, Encoder
8. Demodulator Sections : Decoder and Low Pass Filter.
9. All parts are soldered on single PCB with multicolor Section wise blocks and complete circuit diagram Screen-printed with true value of part. The PCB provided with multi-colour 2mm Testing points and acrylic cover for safety in wooden box.
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 Study of PCM with uniform quantization
4. To calculate Bit rate.
5. To measure Signal to Noise ratio of PCM with uniform quantization.
6. To observe spectrum of PCM signal on Spectrum analyser.

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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