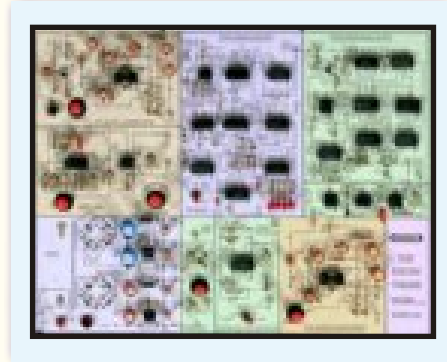




PULSE CODE MODULATION/ DEMODULATION TRAINER

MODEL - COM110M

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. On Board Modulating sine wave generator
Frequency Range : 300Hz to 3.4 KHz.
Amplitude : 0 to 5 Vpp.
3. On Board Sampling Pulse signal generator.
Frequency Range : Fast Mode: 1.2MHz, Slow Mode: 1Hz
4. Built in variable DC power supply (0 to +5V) to see the effect of DC on the output waveform.
5. LED indicators for PCM output bits.
6. PCM Bit : 3 or 4 bit selectable by switch.
7. Modulator Sections : Counter & Comparator, Encoder
8. Demodulator Sections : Decoder and Low Pass Filter.
9. All parts are soldered on single PCB with complete circuit diagram screen-printed in multicolor.
10. 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.

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