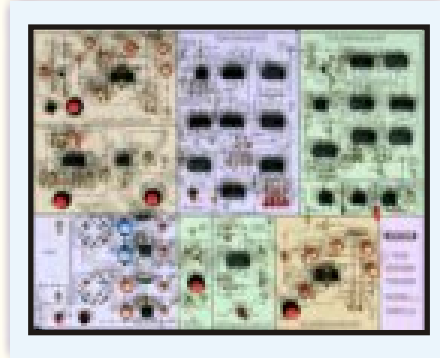




TDM PCM MODULATION DEMODULATION TRAINER

MODEL- COM203-204

This trainer has been designed with a view to provide practical and experimental knowledge of Pulse Code Modulation Demodulation technique as practically implemented in Digital Communication systems on a SINGLE P.C.B.



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 measure distortion factor of the demodulated signal with variable signal amplitude and frequency
2. To measure essential Bandwidth of the modulated signal
3. To observe waveforms of PCM/TDM system (Multiplexer & Demultiplexer)
4. To study inter-channel interference and synchronization problem in multiplexer and demultiplexer system

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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