



DIFFERENTIAL PULSE CODE MODULATION/ DEMODULATION TRAINER

MODEL - DPCM100

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



SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based DC power supply.
3. On Board AF Modulating signal generator - Sinewave
Frequency Range : 100Hz to 10 KHz
Amplitude : 0 to 10 Vpp.
4. On Board Sampling Clock Pulse signal generator.
Frequency Range : 2 KHz to 32 KHz.
5. Modulator Sections : Diff. Amplifier, Sample and Hold, Quantizer, Encoder,
Parallel to serial converter, Predictor
6. Demodulator Sections : Predictor, Serial to parallel converter,
Latch, D/A converter and Low Pass Filter
7. All parts are soldered on single PCB with complete circuit diagram screen-printed in multicolor
8. Standard Accessories : 1. A Training Manual
2. Connecting Patch cords.

EXPERIMENTS

1. To understand Block diagram and working principle
2. To study theory of Differential Pulse Code Modulation
3. To study of Theory of Differential Pulse Code Demodulation
4. To generate DPCM signal
5. To demodulate DPCM signal.
6. To see the effect on DPCM modulated output by varying the amplitude and frequency of modulating signal.

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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