

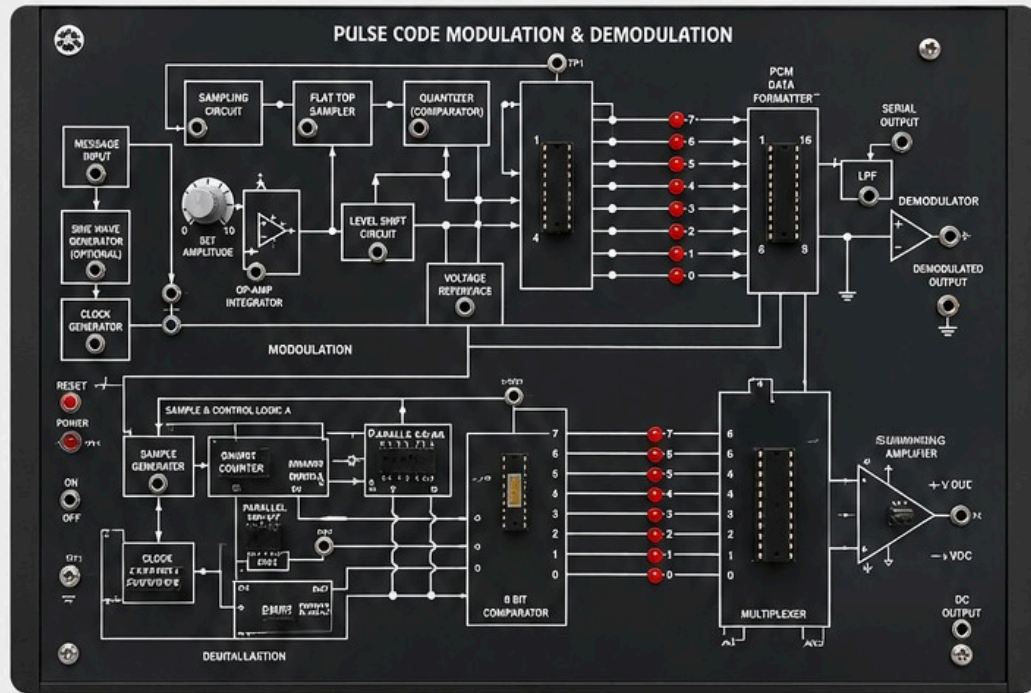
PULSE CODE MODULATION & DEMODULATION

Learn. Analyze. Communicate.

PRODUCT OVERVIEW

The Pulse Code Modulation & Demodulation Trainer demonstrates the complete process of converting an analog message signal into a digital code (PCM) at the transmitter and reconstructing it back to analog at the receiver.

It is an ideal training system for understanding modern digital communication techniques through clear block representation and hands-on experimentation.



FEATURES



Complete PCM
Modulation &
Demodulation
System



On-board Sample &
Control Logic for
Precision Operation



8-bit Quantization
Using Comparator
Technique



LED Indicators for
Data Visualization
at Each Stage



Built-in LPF &
Summing Amplifier
for Signal Recovery



Ideal for Education,
Training & Research
Applications

SPECIFICATIONS

Product Name	Pulse Code Modulation & Demodulation
Message Input	Sine Wave / External Input
Sampling Circuit	Flat Top Sampler
Quantizer	Comparator Based (8-bit)
Encoder	8-bit Encoder
PCM Data Formatter	16-bit Parallel Output with LED Indication
Digital Section	Sample & Control Logic, Binary Counter, 8-bit Comparator, Multiplexer
Demodulator	Summing Amplifier with LPF
Demodulated Output	Analog Output
Power Supply	+5V DC, $\pm 12V$ DC (On Board)
Dimensions (Approx.)	W 500mm x H 300mm x D 80mm
Weight (Approx.)	3.0 kg (Approx.)

APPLICATIONS



Digital Communication Systems Education



Electronics & Communication Laboratories



Research & Development Projects



Telecommunication Training Programs



Understanding of Advanced Modulation
Techniques



Academic & Industrial Training



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