



40690 PAM Modulation and Demodulation Trainer is a useful training product for the students to help them understand the concept of Modulation and Demodulation. Pulse Amplitude Modulation is an effective technique used to transmit the information signal over a long distance without any distortion in it. PAM is a form of signal modulation where the message information is encoded in the Amplitude of a series of signal pulses. Pulse Amplitude Modulation is a scheme, which alters the amplitude of regularly spaced rectangular pulses in accordance with the instantaneous values of a continuous message signal.

Features

1. Self contained Trainer
2. Selectable 4 pulse frequencies on board
3. On board Sine and Square Wave Generators
4. Voice Communication using Dynamic Microphone and Speaker
5. On Board Filter and AC Amplifier
6. Functional Blocks indicated on board mimics
7. Input-Output and test points provided on board
8. Inbuilt DC Power Supply
9. Compact Size

Object

1. To study the concept of Modulation and Demodulation
2. To study the Sampled Waveform
3. To study the Sample and Hold Waveform
4. To study the Flat-Top Waveform
5. To study the Voice Modulation and Demodulation

Technical Specifications

Pulse Output (frequency)	:	8kHz, 16kHz, 32kHz, 64kHz (approximate)
Function Generators		
Sine wave	:	(Gain Adjustable), 1kHz (12Vpp), 2kHz (4Vpp)
Square wave	:	1kHz and 2kHz (6Vpp)
Low Pass Filter	:	4th order BW Filter
Voice Communication	:	Voice Link using Dynamic Mini Microphone and Speaker
AC Amplifier	:	With adjustable gain control
DC Variable Output	:	0-12V
Power Supply	:	230V \pm 10%, 50Hz
Power Consumption	:	3V A (approximate)
Dimensions (mm)	:	W 350 x D 280 x H 55

Note: Specifications are subject to change.