Order Code - 40536-8064
PAM-PPM-PWM Modulation And Demodulation Trainer

PAM-PPM-PWM are the basic Pulse Modulation techniques. The trainer provides complete set up to the students for performing experiments on these techniques. They can study Sampling, Pulse Modulation, Demodulation & Signal reconstruction process. Separate circuits are provided for each technique. The Operating Manual provides technology details and procedure to perform the experiments.

Technical Specifications

Pulse Modulation Techniques :

1. Pulse Amplitude Modulation
2. Pulse Width Modulation
3. Pulse Position Modulation

On-board Sampling

Frequencies (Pulse)	:	8 KHz, 16 Khz, 32 KHz, 64 KHz

On-board Generator :

1. Sinewave	:	1 KHz & 2 KHz (Gain Adjustable)
2. Squarewave	:	1KHz & 2 Khz
Low Pass Filter	:	4^{Th} order BW Filter
Voice Communication	:	Voice Link using dynamic mic & speaker
AC Amplifier	:	With Adjustable Gain Control
DC Output	:	0-4 V (Variable)
Switched Faults	:	8 Nos.
Interconnections	:	4mm Banana Sockets
Test Points	:	29
Power Supply	:	220 V ±10 %, 50 Hz / 60 Hz on request
Power Consumption	:	3 VA (approx.)
Dimensions (mm)	:	W 340 × D 241 × H 105
Weight	:	2.8 Kg (approx.)
Accessories	:	Manual, Set of patch cord, Line cord, Microphone, Headphone

Features

- PAM-PPM-PWM Modulation & Demodulation techniques, using Natural & Flat-top sampling.
- Analog Sample, Sample & Hold and Flat-top outputs.
- Selectable 4 different sampling pulse frequencies on board.
- Input-output and test points provided on board.
- Voice Communication using dynamic microphone & speaker
- On-board Filter and AC Amplifier
- 8 Switched Faults
- Built in DC Power Supply.
- Functional Blocks indicated via on board mimics

Experiments that can be performed

- PAM using Natural & Flat Top sampling
- Sample, Sample & Hold & Flat-top outputs in PAM
- PPM using DC & AC (sinewave) modulating signals
- Pulse Position Demodulation
- Pulse width Modulation & Demodulation
- Voice communication using Pulse Width Modulation
- Voice link using Pulse Amplitude Modulation
- PWM using different sampling frequency

Note: Specifications are subject to change.

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