



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 : 4Th order BW Filter

Voice Communication : Voice Link using dynamic mic &

speaker

ACAmplifier : 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 $\pm 10 \%$, 50 Hz /

 $60\,\mathrm{Hz}$ on request

Power Consumption : 3 VA (approx.)

Dimensions (mm) : $W340 \times D241 \times H105$

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.

${\bf Experiments\,that\,can\,be\,performed}$

- 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

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension, Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India, Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com Website: www.tesca.in