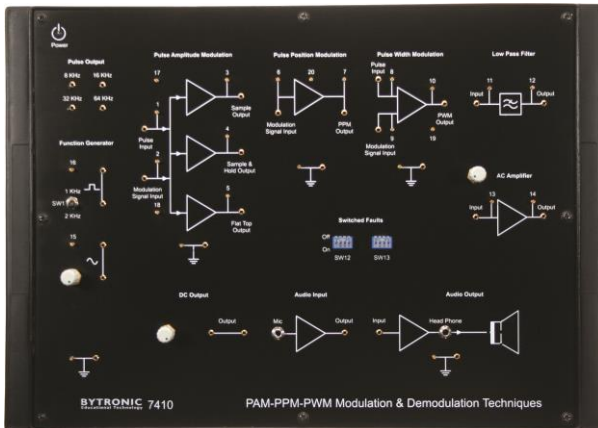


7410 PAM-PPM-PWM Modulation and Demodulation Trainer



Key Features:

- Functional Blocks indicated via on board mimics
- 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
- Voice Communication using dynamic microphone & speaker
- On-board Filter and AC Amplifier
- 8 Switched Faults

PAM-PPM-PWM are the basic pulse modulation techniques. The 7410 can be used to study Sampling, Pulse Modulation, Demodulation & Signal reconstruction processes. Separate circuits are provided for each technique.

Experiments

- Pulse Amplitude Modulation using natural and flat top sampling
- PAM using sample and hold sampling
- Pulse Amplitude Modulation and Demodulation with sample, sample and hold and flat top
- PPM using DC input
- PPM using sine wave input
- PPM demodulation
- PWM using different sampling frequency
- Pulse Width Demodulation
- Voice link using Pulse Amplitude Modulation
- Voice link using Pulse Position Modulation
- Voice communication using Pulse Width Modulation

Specification

Pulse Modulation Techniques	1. Pulse Amplitude Modulation 2. Pulse Width Modulation 3. Pulse Position Modulation
On-board Sampling Frequencies (Pulse)	8KHz, 16KHz, 32KHz, 64KHz
On-board Generators	1. Sine wave 1KHz & 2 KHz(Gain adjustable) 2. Square wave 1KHz & 2 KHz
Low Pass Filter	4th order BW Filter
Voice Communication	Voice Link using dynamic mic & speaker
AC Amplifier	With Adjustable Gain Control
DC Output	0-4V (Variable)
Switched Faults	8
Test Points	29
Power	110-260V AC, 50/60Hz
Dimensions (mm)	W340, H100, D260
Weight	1Kg (approx.)

Ordering Information

Model Number:

7410

Consists of:

PAM-PPM-PWM Modulation & Demodulation Trainer
Manual
Power Cord
Set of patch cables
Microphone
Headphones

Notes.

1. *Specification is subject to change without notice.*

2. *All dimensions are in mm unless otherwise stated*

Bytronic Ltd., reserves the right to make product improvements at any time and without notice and is not responsible for typographical errors. Bytronic Ltd., recognise all product names used herein as trademarks or registered trademarks of their respective holders.

Bytronic Limited

124 Anglesey Court, Towers Business Park,
Rugeley, Staffordshire, WS15 1UL.

United Kingdom

Tel; +44 (0)3456 123 155 Fax; +44 (0)3456 123 156

Email: sales@bytronic.net Website: www.bytronic.net