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PAM-PPM-PWM Modulation- Demodulation Techniques Scientech 2110



Scientech TechBooks are compact and user friendly learning platforms to provide a modern, portable, comprehensive and practical way to learn Technology. Each TechBook is provided with detailed Multimedia learning material which covers basic theory, step by step procedure to conduct the experiment and other useful information.

Scientech TechBook 2110 PAM-PPM-PWM are the basic Pulse Modulation Techniques. TechBook 2110 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 learning material provides exhaustive technology details and experimental assistance.

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
- Voice communication using dynamic microphone & speaker
- On-board filter and AC amplifier
- 8 Switched faults

Scope of Learning

- PAM using Natural & Flat Top sampling
- Sample, Sample & Hold & Flat-top outputs in PAM
- PPM using DC & AC modulating signals
- Pulse Position Demodulation
- Pulse Width Modulation & Demodulation

Designed and Manufactured in India by -

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Technical Specifications

Pulse Modulation Techniques		
Pulse Amplitude Modulation		
Pulse Width Modulation		
Pulse Position Modulation		
On-board Sampling	:	8 KHz, 16 KHz,
Frequencies (Pulse)	:	32 KHz, 64 KHz
On-board Generator		
Sinewave	:	1 KHz & 2 KHz (Gain adjustable)
Squarewave	:	1KHz & 2 KHz
Low Pass Filter	:	4 th order BW filter
Voice communication	:	Voice link using dynamic MIC & speaker
ACAmplifier	:	With adjustable Gain Control
DCOutput	:	0-4 V (variable)
Switched Faults	:	8 nos
Interconnections	:	2mm banana sockets
Test Points	:	29 nos
Power Consumption	:	3 VA (approximately)
Product Tutorial	:	
		www.ScientechLearning.com
Dimensions (mm)	:	W 340 x D 240 x H 100
Mains Supply	:	110V - 260V AC, 50/60Hz
Weight	:	1 Kg. (approximately)
Operating Conditions	:	0-40°C, 85% RH
Included Accessories		
Patch cord 16"	:	5 nos.
Main cord	:	1 no.
Head phone	:	1 no.
Microphone	:	1 no.