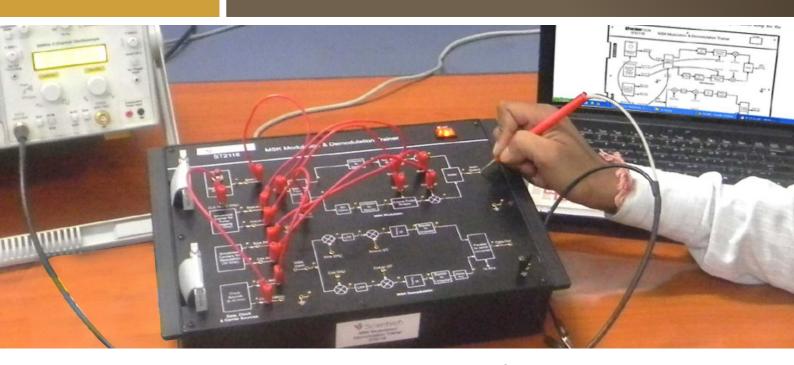


MSK Modulator/ Demodulator Scientech 2116



Scientech 2116 MSK Modulator/ Demodulator demonstrates the basic working of Minimum Shift Keying technique. As the name suggests, MSK results in a modulation scheme which has smooth phase variations in contrast to other phase modulation schemes where the modulated signal contains abrupt phase changes. The immediate advantage of such a scheme is the reduction in modulated signal bandwidth.

Scientech 2116, MSK Modulation / Demodulation comprises of following major blocks:

- Digital Data Generator
- Sine and Cosine Wave Generator for wave shaping
- Sine and Cosine Carrier Generator
- Clock Signal Generator
- MSK Modulator and Demodulator sections with complete signal flow

Features

- Self contained and easy to use
- Functional blocks indicated on board mimic
- On board Data Generator
- On board Carrier Generator
- On board Clock Generators
- MSK Modulator
- MSK Demodulator

Scope of Learning

Study of:

- Sinusoidal wave shaping used in MSK Modulation
- Minimum Shift Keying (MSK) Modulation process
- Minimum Shift Keying (MSK) Demodulation process

Technical Specifications

Data Source

Data rate : 16 Kbps World Length : 15 bits

Data Format : NRZ (Non Return to Zero)

Clock Source : 16 KHz, 8 KHz

Carrier Generators : 32 KHz (Sinusoidal)

Pulse Shaping Waveform: 4 KHz

Interconnections : 2 mm socket

Test Points : 36 nos

Weight : 1.1 Kgs (approximately)

Product Tutorial : Online on

www.ScientechLearning.com

 Dimensions (mm)
 : W 420 x D 255 x H 100

 Power Supply
 : 110V - 260V AC, 50/60Hz

Weight : 1 Kg. (approximately)

Operating Conditions : 0-40°C, 85% RH

Included Accessories

Patch cord 16" : 20 nos Main cord : 1 no. Subject to Chang