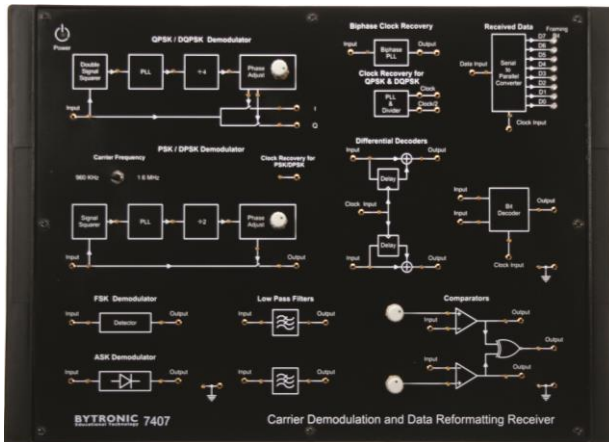


7407 Carrier Demodulation and Data Reformatting Receiver



Key Features:

- Functional blocks indicated via on board mimics
- Test points
- 7 Different data conditioning formats – NRZ(M) RZ, Biphase (Manchester), Biphase (Mark), AMI, RB
- FSK, PSK, ASK, DPSK & QPSK carrier demodulation
- On-Board Biphase clock recovery circuit
- On-board data squaring circuit and different decoder
- On-Board Butterworth Filters – 4th Order filters

The unit is one of a range of digital communication trainers and provides all necessary inputs and connections for students. The 7407 carrier demodulation and data reformatting receiver trainer is a digital communication system which efficiently explains all communication processing steps involved in digital transmission and reception of analogue signals. Various digital modulation techniques such as ASK, FSK, PSK, DPSK, QPSK etc can be implemented using combinations of the 7406 and 7407 trainers.

In order for this unit to work correctly the 7406 data formatting and carrier modulation transmitter trainer is required.

Experiments

- Data formats
- Amplitude shift keying
- Frequency shift keying
- Phase shift keying
- Differential phase shift keying
- Quadrature phase shift keying
- Differential quadrature phase shift keying

Specification

Input	From 7406 Transmitter receiver board
Carrier Demodulation	<ol style="list-style-type: none"> 1. ASK – Diode detector 2. FSK – PLL Detector 3. PSK – Square Loop Detector 4. QPSK – Fourth Power Loop Detector
Test Points	39
Power	110-220V, 50/60Hz
Dimensions (mm)	W326, H52, D252
Weight	2.Kg (approx.)

Ordering Information

Model Number:

7407

Consists of:

Carrier Demodulation and Data Reformatting Receiver Trainer
Manual
Power Cord
Set of patch cables

Notes.

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

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

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