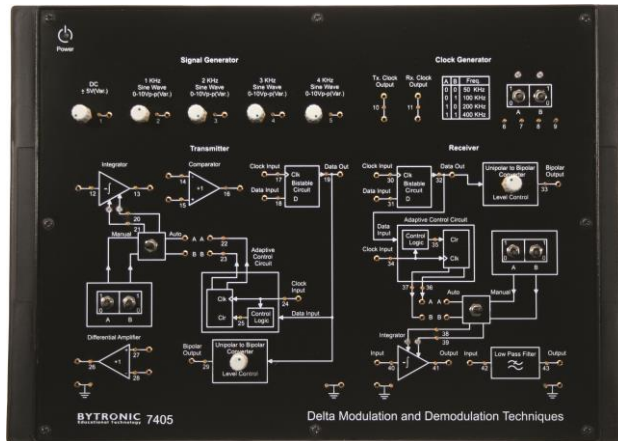


7405 – Delta, Adaptive Delta and Delta Sigma Modulation/Demodulation Trainer



Key Features:

- Functional blocks indicated via on board mimics
- Test points
- Transmitter and receiver on same board
- Clock generation from crystal
- Switch selectable sampling rates
- 4 on-board generators at 4 different frequencies (synchronized)
- Separate adjustable DC level
- Selectable integrators gain setting (by switch or control circuit)
- On-board 4th order Butterworth low pass filter
- Unipolar to bipolar conversion on-board

The unit is one of a range of digital communication trainers and provides all necessary inputs and connections for students to study Delta, Adaptive Delta and Delta Sigma Modulation Demodulation. The 7405 covers the concepts of delta modulation demodulation, slope overloading, adaptive delta modulation demodulation, sigma delta modulation demodulation and amplitude overloading.

Experiments

- Study of delta modulation & demodulation
- Study of adaptive delta modulation & demodulation
- Study of delta sigma modulation & demodulation

Specification

Crystal Frequency	6.4 MHz
Sampling Frequency	50, 100, 200 and 400KHz (Switch Selectable)
On-Board Generator	Synchronised Sine wave generator at 1, 2, 3 and 4KHz, with adjustable amplitude and variable D.C. level +/-5
Integrators	4 integrator gain settings normal, x2, x4, x8
L. P. Filters	4 th order Butterworth (4.8KHz Cut Off Frequency)
Test Points	45
Power	110-220 ± 10% 50/60Hz
Dimensions (mm)	W326, H52, D252
Weight	1kg approx.

Ordering Information

Model Number: 7405
Consists of: Delta, Adaptive Delta and Delta Sigma Modulation Demodulation Trainer
Manual
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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