

**ASK, FSK, BPSK, DBPSK MODULATOR
AND DEMODULATOR
OMEGA TYPE ETB-263**

OMEGA TYPE ETB-263 are compact and user friendly learning platforms to provide a modern, portable, comprehensive and practical way to learn Technology. Each ETB-263 provided with detailed Multimedia learning material which covers basic theory, step by step procedure to conduct the experiment and other useful information.

OMEGA TYPE ETB-263 provides an extensive hands on ASK, FSK, BPSK, DBPSK Modulator & Demodulator.

OBJECT

**01 Amplitude Shift Keying
Modulation & Demodulation**

Objectives:

- 01 Study and analysis of Amplitude Shift Keying Modulation
- 02 Study and analysis of Amplitude Shift Keying Demodulation.
- 03 Study and analysis of Integrator and Comparator block

**02 Frequency Shift Keying
Modulation & Demodulation**

Objectives:

- 01 Study and analysis of Frequency Shift Keying Modulation
- 02 Study and analysis of Frequency Shift Keying Demodulation.
- 03 Study and analysis of Integrator and Comparator block.

**03 Binary Phase Shift Keying
Modulation & Demodulation**

Objectives:

- 01 Study and analysis of Binary Phase Shift Keying Modulation .
- 02 Study and analysis of Binary Phase Shift Keying Demodulation.
- 03 Study and analysis of Integrator and Comparator block .

**04 Differential Binary Phase Shift Keying
Modulation & Demodulation**

Objectives:

- 01 Study and analysis of Differential encoder and decoder.
- 02 Study and analysis of Differential Binary Phase Shift Keying Modulation .
- 03 Study and analysis of Differential Binary Phase Shift Keying Demodulation.



FEATURES

- 01 Personalized Learning platform
- 02 On-board Data Generator with various data patterns
- 03 Selectable data frequencies and data patterns

TECHNICAL SPECIFICATION

01 Modulation & Demodulation

Techniques : ASK, FSK, BPSK, DBPSK

02 Internal Data Generator : Digital data (PNS)

03 Data Pattern : 8-Bit, 16-Bit, 32-Bit, 64-Bit

04 Frequency : 2KHz, 4KHz, 16KHz

05 Internal Carrier Generator : Direct Digital Synthesized

06 Carrier Signal : Sine

07 Number of Test Points : 39 nos.

08 Crystal Frequency : 4.096MHz

09 Selection Mode : atch cords

10 Operating Condition : 0-40°C, 85% RH

11 Power Supply : 230V AC, 50Hz

12 Weight : 4.5 Kg (approx)

13 Dimensions (mm) : W415xD165x H315

LIST OF ACCESSORIES:

- 01 Patch cord 2mm length 50cm. Red.....04
- 02 Patch cord 2mm length 50cm. Black.....03

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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