

**FREQUENCY DIVISION MULTIPLEXER /
DEMULPLEXER TRAINER
OMEGA TYPE ETB-264**



OMEGA TYPE ETB-264 FDM trainer demonstrates FDM technique. Two different modulated inputs can be transmitted as a single communication line using FDM. The trainer is self-contained and all the inputs are on board.

- 07 Test points : Available
- 08 Interconnection : 2mm banana socket
- 09 Power Supply : 230VAC \pm 10%, at 50Hz
- 10 Power Consumption : 3 VA (approx.)
- 11 Weight : 2.800Kg (approx.)
- 12 Dimension (mm) : W415xD165xH315.

OBJECTS:

- 01 Study of Frequency Division Multiplexing / Demultiplexing with sinusoidal wave.
- 02 Study of Frequency Division Multiplexing / Demultiplexing with audio inputs
- 03 Study of Fourier Spectrum of FDM
- 04 Study of DSBSC Modulation/Demodulation

FEATURES:

- 02 Self contained and easy to operate
- 03 Two variable modulating (sinusoidal) input channels with provision of voice inputs
- 04 Two DSBSC modulators for frequency band translation of two test signals
- 05 Two Carrier Generators
- 06 Two Sets of Audio input Amplifier
- 07 One adder/transmission Amplifier
- 08 Two Demodulators
- 09 Two low pass filters for smooth output
- 10 Two Inbuilt Speakers.

TECHNICAL SPECIFICATIONS

- 01 Carrier Generator : Sine wave 32KHz, 64KHz
- 02 Modulating Input Frequency : Sine wave 300Hz - 3.4 KHz (variable)
- 03 Audio Input Amplifier : Gain of 100 (approx.)
- 04 Modulator/Demodulator: DSBSC Modulator / Demodulator
- 05 Low Pass Filters : Second Order Butterworth Filters with a cut off frequency of 4KHz
- 06 Audio Output Amplifier : Output Amplifier with a gain of 20

LIST OF ACCESSORIES

- 01 Mic02
- 02 Patch cord 2mm length 50cm Red10
- 03 Patch cord 2mm length 50cm Black.....10

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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