



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.

Technical Specifications

Carrier Generator	: Sine wave 100 KHz & 200 KHz
Modulating Input Frequency	: Sinewave 1 KHz -10 KHz (variable)
Audio Input Amplifier	: Gain of 100 (approx.)
Modulator/Demodulator	: DSBSC Modulator /Demodulator
Low Pass Filters	: Second Order Butterworth Filters with a cut off frequency of 10 KHz
Audio Output Amplifier	: Output Amplifier with a gain of 20
Test points	: 30
Interconnection	: 4mm banana socket
Power Supply	: 220 V \pm 10 %, 50 Hz / 60 Hz on request
Power Consumption	: 3 VA (approx.)
Dimension (mm)	: W 340 \times D 240 \times H 105
Weight	: 3.5 Kg (approx.)
Accessories	: Microphones, Headphones, Patch Cords, Manual and Mains Cord

- Self contained and easy to operate
- Two variable modulating (sinusoidal) input channels with provision of voice inputs
- Two DSBSC modulators for frequency band translation of two test signals
- Two Carrier Generators
- Two Sets of Audio input Amplifier
- One adder/transmission Amplifier
- Two Demodulators
- Two low pass filters for smooth output

Experiments that can be performed

- Study of Frequency Division Multiplexing / Demultiplexing with sinusoidal & audio inputs
- Study of Fourier Spectrum of FDM
- Study of DSBSC modulation/Demodulation
- Study of Fourier Transform of DSBSC Modulation and many more...

Note: Specifications are subject to change.

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