



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

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|-----------------------------------|-----------------------------------------------------------------------|
| 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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