



Technical Specifications

Audio Oscillator : With adjustable Amplitude & Frequency (300 Hz - 3.4 KHz)

FM Modulator : 2 Nos.

- 1) Reactance Modulator (with carrier Frequency adjustment)
- 2) Varactor Modulator (with carrier Frequency adjustment)

Mixer / Amplifier : 1 No. (With Gain adjustment) Allows FM input signal to be amplitude modulated by a noise input prior to demodulation.

Transmitter output Freq : 455 KHz

FM Demodulator : 5 Nos.

- 1) Detuned Resonant Detector
- 2) Quadrature Detector
- 3) Foster - Seeley Detector
- 4) Ratio - Detector
- 5) Phase Locked Loop Detector

Low Pass Filter : 3.4 KHz Cut off Frequency Amplifier (with adjustable gain)

Amplitude Limiter : 1 No.

Switched Faults : 8 Nos.

Interconnections : 4 mm banana sockets

Test points : 74

Power Supply : 220 V \pm 10 %, 50 Hz / 60 Hz on request

Power Consumption : 3 VA (approx.)

Dimensions (mm.) : W 340 \times D 241 \times H 105

Weight : 2.8 Kg (approx.)

Accessories : Line cord, Manual, Set of patch cords

- ▣ On-board Audio Oscillator, Modulators, Detectors, Amplitude Limiter & Filter

Experiments that can be performed

- ▣ Study of 2 types of FM modulators & 5 different types of demodulators
- ▣ Effect of noise on FM transmission & Study of tuned circuits
- ▣ Separate VCO circuit to demonstrate FM Waveforms

