



# FM GENERATION & DETECTION USING PLL DETECTOR

MODEL- COM413NW-1

This trainer has been designed with a view to provide practical and experimental Knowledge of FM Transmitter & Receiver technique on a SINGLE P.C.B.



## SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply.
3. On Board AF Modulating signal generator - Sine wave  
Frequency Range : 1KHz to 10KHz  
Amplitude : 0 to 3 V-pp.
4. On board Amplitude Limiter
5. Modulator Type : Varactor diode and NE 566 VCO Modulator
6. Demodulator Type : Phase lock loop (PLL) detector & Diode Detector.
7. All parts are soldered on PCB of size 12" x 9" with complete circuit diagram screen-printed.
8. Standard Accessories :
  1. A Training Manual
  2. Connecting Patch cords.

## EXPERIMENTS

1. To study theory of Frequency Modulation & Demodulation.
2. To Modulate FM Signal using Varactor diode modulator
3. To Modulate FM Signal using NE 566 Voltage control oscillator
4. To calculate modulation index
5. To demodulate FM Signal using IC 565 PLL

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**Dealer:-**