

ACT-10

FM MODULATION/DEMODULATION KIT



● Interconnections

- ❖ All interconnections are made using 2mm banana Patch cords.
- ❖ Test points are provided to analyze signals at various points.
- ❖ All ICs are mounted on IC Sockets.
- ❖ Bare board Tested Glass Epoxy SMOBC PCB is used.
- ❖ In-Built Power Supply of +5V/1.5A, $\pm 12V/250mA$ with Power ON indication.
- ❖ Attractive ABS Plastic enclosures.
- ❖ Set of 2mm Patch cords for interconnections
- ❖ User's Manual with sample experimental programs

ACT-10 is a Analog Communication Trainer System to understand FM Modulation & Demodulation Techniques. Various Test points/ functional block diagrams are provided on-board for Teaching/Training.

Specifications

- **Sine Wave Generator**
 - ❖ Provides Synchronized Sine waveform output ranging from 300Hz to 3.4 KHz.
 - ❖ Provision for Amplitude adjustments provided.
- **FM Modulator**
 - ❖ Reactance Modulator.
 - ❖ Varactor Modulator.
- **FM Demodulator**
 - ❖ Detuned Resonant detector
 - ❖ Quadrature detector
 - ❖ Fooster Seeley detector
 - ❖ Ratio detector
 - ❖ PLL detector
- **On-board features**
 - ❖ Mixer/Amplifier provided to modulate noise before demodulation.
 - ❖ Transmitter frequency of 455 KHz.
 - ❖ Low pass filter with cut off frequency of 3.4 KHz
 - ❖ Switch Faults are provided.
 - ❖ Block Description Screen printed on glassy epoxy PCB.

Note : Specifications can be altered without notice in our constant efforts for improvement.