



# AMPLITUDE MODULATION/ DEMODULATION TRAINER

MODEL - COM101N

This trainer has been designed with a view to provide practical and experimental knowledge of Amplitude Modulation /Demodulation technique on a SINGLE PCB.



## 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 10 KHz  
Amplitude : 0 to 3 Vpp.
4. On Board RF carrier signal generator.  
Frequency Range : 400KHz to 500KHz.  
Amplitude : 0 to 10 Vpp.
5. Modulator Type : Balanced modulator.
6. Demodulator Type : Envelope Detector (Diode detector) at 500KHz frequency.
7. All parts are soldered on single 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 generate AM Double Side band Full Carrier (DSB-FC) signal.
2. To calculate modulation index by graphical method
3. To calculate power of AM Wave for different modulating signal.
3. To detect AM signal using Envelope Detector - Practical diode detector
4. To observe effect of change in RC time constant which leads to diagonal and negative clipping

**Sigma Trainers and Kits**  
E-113, Jai Ambe Nagar,  
Near Udgam School,  
Thaltej,  
**AHMEDABAD - 380054.**  
**INDIA.**

**Phone(O): +91-79-26852427/ 26850829**  
**Phone(F): +91-79-26767512/ 26767648**  
**Fax : +91-79-26840290/ 26840290**  
**Mobile : +91-9824001168**  
**Email : sales@sigmatrainers.com**  
**: sigmatrainers@sify.com**  
**Web : www.sigmatrainers.com**

**Dealer:-**