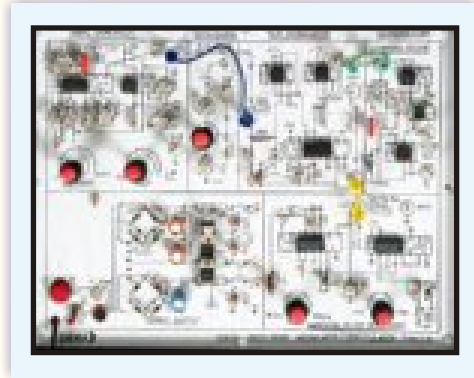# SIGMA

PULSE AMPLITUDE MODULATION/ DEMODULATION TRAINER

MODEL- COM106L

This trainer has been designed with a view to provide practical & experimental knowledge of Pulse 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
   Amplitude : 0 to 5 Vpp.
4. On Board Sampling Pulse signal generator.
   Frequency Range : 2 KHz to 32 KHz.
   Pulse width : Variable.
5. Modulator Sections : Sample and Hold using multiplexer.
6. Demodulator Sections : Low Pass Filter
7. Standard Accessories : 1. A Training Manual.

EXPERIMENTS

1. To study theory of Pulse Amplitude Modulation & Demodulation.
2. To generate PAM signal
3. To demodulate PAM signal
4. To vary frequency of Sampling pulse generator and see aliasing effect.
5. To prove Nyquist's Sampling Theorem.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.