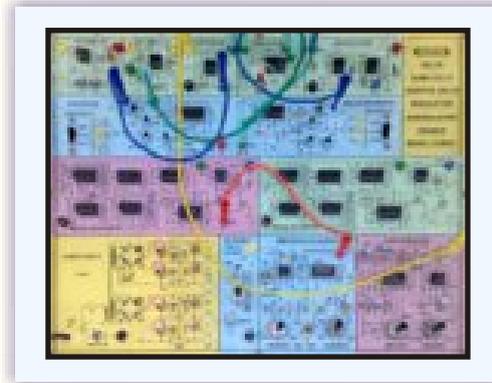




# DELTA, ADAPTIVE DELTA & DELTA-SIGMA MODULATION/DEMODULATION TRAINER

MODEL- COM207L

This trainer has been designed with a view to provide practical and experimental knowledge of different type of Delta Modulation /Demodulation technique as practically implemented in Digital Communication systems on a SINGLE P.C.B.



## SPECIFICATIONS

- |     |   |   |   |
|-----|---|---|---|
| 1.  | Power supply requirement  | : | 230V AC, 50 Hz.   |
| 2.  | Built in IC based power supply                                  | : | +15V, -15V, +5V, -5V  |
| 3.  | On Board AF Modulating Synchronous signal generator - Sine wave |   |   |
|     | Frequency Range   | : | 300 Hz to 3.4 KHz   |
|     | Amplitude   | : | 0 to 5 Vpp.   |
| 4.  | On Board Sampling Pulse signal generator.                       |   |   |
|     | Frequency Range   | : | 1 KHz to 1 MHz  |
|     | Pulse width   | : | Variable.   |
| 5.  | Variable Step size for Delta Modulation                         | : | 8, 14, 34 mV.   |
| 6.  | On Board variable DC power supply                               | : | +8 to -8 VDC  |
| 7.  | Modulator Sections  | : | Delta, Sigma-Delta and Adaptive Delta   |
| 8.  | Demodulator Sections  | : | Low Pass Filter- Butter worth - 3.4KHz Cutoff Frequency.                          |
| 10. | Standard Accessories  | : | Experimental and Circuit Description Manual.<br>Connecting Patch cords. (10 Nos.) |

## EXPERIMENTS

1. Study of Delta Modulation & Demodulation.
2. Study Of Effect of Slope overload, tracking and hunting in Delta modulation.
3. Study of Adaptive Delta Modulation & Demodulation.
4. Study of Delta Sigma Modulation & Demodulation.

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

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