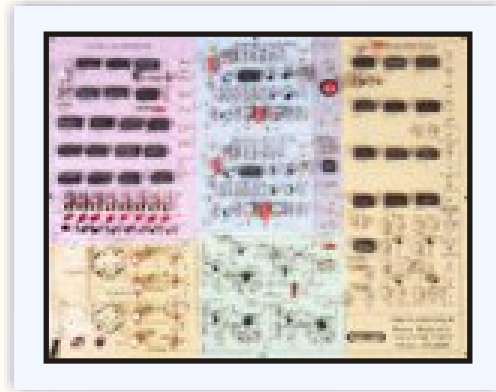# SIGMA

# DATA FORMATTING AND CARRIER MODULATION TRANSMITTER TRAINER

## MODEL-COM205

This trainer has been designed with a view to provide practical / experimental knowledge of different types of Digital carrier modulation technics and data formatting technics as practically implemented in Digital Communication systems on a SINGLE P.C.B.



## SPECIFICATIONS

### FEATURES

1. On Board Carrier generator circuit (sine wave synchronized to transmitter data)
2. Onboard in phase and quadrant phase carrier for QPSK modulation and DQPSK
3. Diff. data conditioning formats NRZ L, NRZ-M, RZ, Biphase, Manchester, biphase-mark, AMI RB, differentially encoded dibit pair
4. FSK, PSK, ASK, QPSK, DQPSK carrier modulation
5. Variable carrier modulation and off set
6. Variable carrier gain
7. On board Unipolar to Bipolar conversion
8. Onboard data inverter

### SPECIFICATIONS

1. Input : 2 channel time division multiplexed data.
2. Data formats : NRZ L, NRZ-M, RZ, Biphase Manchester, biphase-mark, AMI RB, Differentially encoded dibit pair
3. On-Board carrier : sine wave synchronized to transmitted data
   At 1.6 Mhz, 960 kHz (0 deg phase), 960 kHz (90 deg phase),
4. Interconnections : 2 mm sockets
5. Power supply : 220 V50 Hz
6. Power consumption: 4 VA
7. Software : Simulation and Teaching software or E- Manual with experiments & theory On the above given Experiment

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