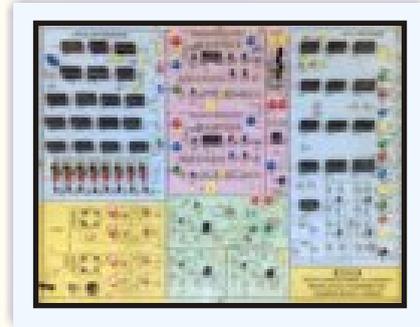




DATA FORMATTING AND CARRIER MODULATION TRANSMITTER TRAINER

MODEL-COM205L

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

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply : + 15V, + 5V
3. Types of Keying : ASK, FSK, PSK, QPSK
4. On Board RF Carrier Synchronous signal generator - Sinewave
Frequency Range : 1.28 MHz (0°), 1.28MHz (90°), 320KHz, 640KHz.
5. On Board Modulating Digital Data signal generator (NRZ-L) to generate any binary input word with Bit Clock & Word clock.
Word Length : 8 Bits.
Word Clock Frequency : 10 KHz.
6. Modulator Type : Balanced modulators
7. Data Coding Formats : Non-Return to zero NRZ (L), Non-Return to zero Mark - NRZ (M)
Non-Return to zero Space NRZ (S), Biphase (Manchester), Biphase (Mark),
Biphase (Space), Return to Zero - RZ,
8. All parts are soldered on single pin TAGS on single PCB with complete circuit diagram Screen-printed in multi colour.
9. Standard Accessories : 1. A Training Manual
2. Connecting Patch cords

EXPERIMENTS

1. Study of Carrier modulation Techniques - ASK, FSK, PSK & QPSK.
2. Study of conversion of NRZ data to other data formats
NRZ (L), NRZ(M), Bipolar NRZ, RZ, Bipolar RZ, NRZ(S), Biphase (Manchester), Biphase (Mark),
Biphase (Space), Ternary, RB, AMI

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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