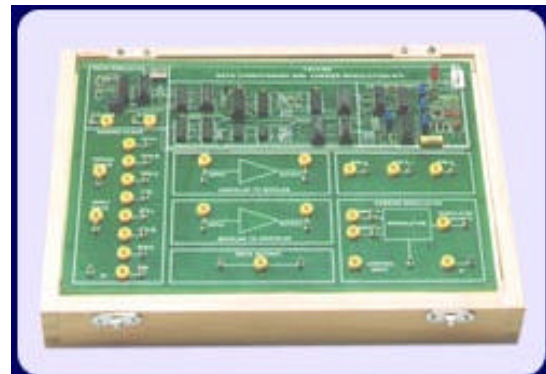


TLD-05: DATA CONDITIONING AND CARRIER MODULATION TRANSMITTER

This module allows students to learn the different types of data formats such as Non-Return to Zero, Phase Encoded, Return to Zero and Multilevel binary format which are used in digital transmission systems. It also covers the study of Carrier Modulation techniques.

TLS-05 is a transmitter module where as TLD-06 is receiver kit.



Features :

- Data conditioning format : NRZ(L), NRZ(M), NRZ(S) Biphase (Manchester), Biphase (Mark), Biphase (Space), RZ, Alternate Mark Inversion (AMI).
- ASK, FSK, PSK Carrier modulation techniques.
- On-Board Data Simulator generates NRZ - L pattern.
- On-Board synchronised three carrier sine waves.
- Various test points provided on-board.

Technical Specifications :

- On board Data simulator : NRZ-L pattern (Onboard)
- Data format (coding) : NRZ(L), NRZ(M), NRZ(S), Biphase (Manchester), Biphase (Mark), Biphase (Space), RZ, AMI.
- Onboard Carrier sinewaves : 2 MHz (0 Deg.), 1 MHz (0 Deg.),
- Carrier Modulation : ASK, FSK, PSK
- Interconnection : 2mm standard banana socket
- Power Supply : +5V, +/-12V

List of Experiments :

- Data Coding Techniques for Non-Return to Zero format
- Data Coding Techniques for Phase Encoded format
- Data Coding Techniques for return to Zero format and multilevel binary format
- Amplitude Shift Keying Modulation Technique (ASK)
- Frequency Shift Keying Modulation Technique (FSK)
- Frequency Shift Keying Modulation Technique (FSK)
- Phase Shift Keying Modulation Technique (PSK)