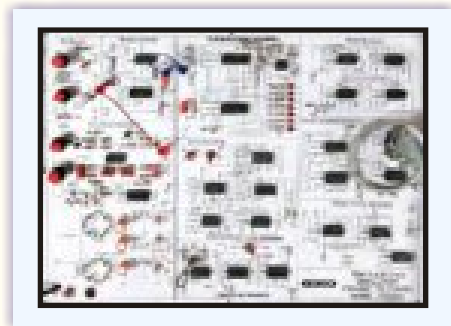




TDM PULSE CODE MODULATION TRANSMITTER TRAINER

MODEL- COM203

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



SPECIFICATIONS

- | | |
|------------------------------|---|
| 1. Crystal Frequency | : 16 MHz |
| 2. On Board Analog Signal | : 2 KHz, 4 KHz (sine wave synchronized to sampling pulse Adjustable amplitude and separate variable DC level) |
| 3. Input Channels | : Two |
| 4. Multiplexing | : Time Division Multiplexing |
| 5. Modulation | : Pulse Code Modulation |
| 6. Sync Signal | : Pseudo random sync code generator |
| 7. Error Check Code | : Off - Odd - Even - Hamming |
| 8. Operating Mode | : Fast : 320 KHz / channel (approx.) Slow: 1.9 Hz / channel (approx.) |
| 9. PC -PC communication Port | : Using 2 channels via RS232 9 Pin D type connector - 2Nos. |
| Baud Rate | : Selectable from 300 to 2400 |
| 10. Test Points | : 50 |
| 11. Interconnections | : 2 mm Sockets |
| 12. Power Supply | : 220 V \pm 10%, 50 Hz / 60 Hz on request |
| 13. Power Consumption | : 4 VA (approx.) |

EXPERIMENTS

1. Study of Pulse Code Modulation
2. Study of A/D converter.
3. Study of parallel to serial Data conversion.
4. Study of time division multiplexing of PCM Data.
5. Study of synchronization by pseudo random code.
6. Study of error check codes with switched faults operation.

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Dealer:-