The trainer provides all necessary inputs and connection for students to study Pulse Code Modulation Transmission techniques. A communication link can be established by using PCM receiver.

Technical Specifications

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

- Crystal Controlled Clock
- On-board Sine wave generator (Synchronized)
- 2 TDM Analog Channels
- PCM Transmitter
- Fast & Slow modes for real time operation and data flow examination
- Error check code options (odd-even parity, Hamming Code)
- 4 Switched faults allow different Error Check Options
- PC - PC Communication via RS232 interface
- Functional blocks indicated via on board mimics

Experiments that can be performed

- Pulse Code Modulation
- A/D Converter, Parallel to Serial Data conversion
- Time Division Multiplexing of PCM Data
- Synchronization by Pseudo random Code
- Error Check Codes with switched faults
- Connecting modes between transmitters & receiver (1) Sync, clock, data lines connected (2) Clock, data connected (3) Data
- Study of the effect of induced faults
- PC-PC communication in 3 modes
- Study of control signals and their timing

Note: Specifications are subject to change.

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