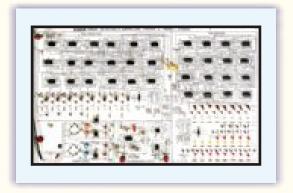


## ERROR DETECTION AND CORRECTION USING HAMMING CODE TRAINER

MODEL - COM121S

This trainer has been designed with a view to provide practical & experimental knowledge of effect of noise in digital system and Error detection and Correction on single PCB.



## **SPECIFICATIONS**

- 1. Built in IC based power supply.
- 2. On Board Modulating Digital Data signal generator to generate any binary input word with Bit clock & Word Clock.

Word Length : 8 Bits.

- 3. On Board Parity generator : One bit and Four bits.
- 4. On Board Noise inserting circuit
- 5. Data receiver with different formats
- 6. To generate digital data word with four data & four parity check bits.
- 7. All parts are soldered on single PCB with complete circuit diagram screen-printed in multi-colour.
- 8. Standard Accessories : 1. The manual having practical details.
  - 2. All the necessary cables.

## **EXPERIMENTS**

- 1. To insert noise in digital data
- 2. To generate digital data word (8 Bits) with No parity bits.
- 3. To generate digital data word with one parity bit. (7 data + 1 Parity)
- 4. To generate digital data word with four data & four parity check bits.
- 5. To insert error in any one bit in received data word.
- 6. To generate & Detect Parity bits and use it to correct error.
- 7. To detect the error and correct it using Hamming Codes.

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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