SIGMA

STUDY OF LINE CODES & THEIR SPECTRAL ANALYSIS
MODEL COM122N

This trainer has been designed with a view to provide practical and experimental knowledge of the process of coding and decoding of digital data into different formats.
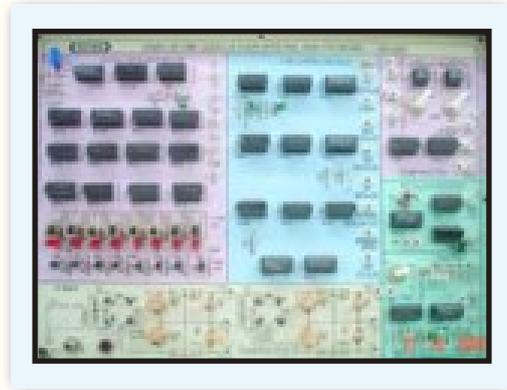
SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. On Board Digital Data generator to generate any binary input word of
   Word Length : 8 Bits.
   Word Clock Frequency : 10 KHz
3. <u>Line Coding Formats</u> : 1. NRZ - Unipolar
   2. NRZ - Bipolar
   3. RZ - Unipolar
   4. Bipolar RZ
   5. Bipolar AMI (Alternate Mark Inversion)
   6. Manchester
4. <u>Line Decoding section</u> : Bit Clock Recovery by PLL
   Bit Clock Decoder
   Comparators
5. Standard Accessories : 1. A Training Manual.
   2. Connecting Patch cords.

EXPERIMENTS

1. To study theory of digital line coding and decoding.
2. To generate different line codes and decode them.
3. To observe spectrum of different line codes on Spectrum Analyzer.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.