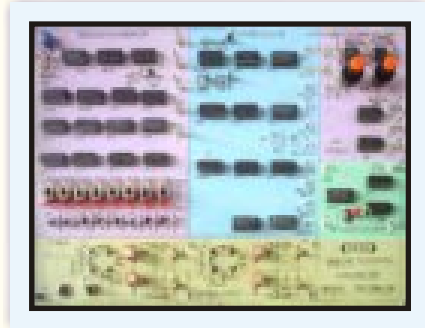# SIGMA
DIGITAL TO DIGITAL CONVERTER
MODEL - DDCONV100

This trainer has been designed with a view to provide practical and experimental knowledge of Digital to Digital converter.

SPECIFICATIONS

1. Power supply requirement   :   230V AC, 50 Hz.
2. Built in IC based power supply.
3. On Board Modulating Digital Data signal generator to generate any binary input word with Bit clock & Word clock.
    Word Length   :   8 Bits.
    Word Clock Frequency   :   8 KHz
4. Data Format Generator   :   1. NRZ (Unipolar)
                                   2. Bipolar NRZ
                                   3. RZ (Unipolar)
                                   4. Bipolar RZ
                                   5. Bi-Phase (Manchester)
                                   6. Ternary
5. All parts are soldered on single PCB with complete circuit diagram Screen-printed.
6. Standard Accessories   :   1. A Training Manual.
                                 2. Connecting Patch cords.

EXPERIMENTS

1. To study theory of digital line coding.
2. To generate different input binary codes with different bit clock and word clock.
3. To generate following different line codes with bit clock.
    1. NRZ (Unipolar)
    2. Bipolar NRZ
    3. RZ (Unipolar)
    4. Bipolar RZ
    5. Bi-Phase (Manchester)
    6. Ternary