



OMEGA TYPE ETB-212 Experimental Training Board has been designed specifically to study Pulse Code Modulation & Demodulation. In the basic PCM Modulator the base band analog signal is covered into 8 bit digital format using an ADC. The sampling rate is set at 2.5 KHz. The 8 bit parallel data from ADC is converted into serial bit stream at 33 kbps.

The PCM Demodulator receives the serial data, converts it into 8 bit parallel format. The Analog to digital converter transforms the 8 bit parallel data into analog level. Thus the output of DAC is a stepped approximation of input signal. A low pass filter is used to recover the analog signal.

Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT

To study Pulse Code Modulation & Demodulation.

FEATURES

The board consists of the following built-in parts :

- 01 5V D.C. at 200mA I.C regulated power supply internally connected.
- 02 $\pm 15V$ D.C. at 200mA I.C regulated power supply internally connected.
- 03 +5V D.C. to -9V Variable D.C. output.
- 04 Built in TTL Clock Generator 33 KHz.
- 05 Modulating Signal Generator 15Hz to 300Hz.
- 06 PCM Encoder.
- 07 PCM Decoder.
- 08 Data display with LED's
- 09 Adequate no. of other electronic components.
- 10 Mains ON/OFF switch, fuse and jewel light.
- 11 The unit is operative on 230V $\pm 10\%$ at 50Hz A.C. Mains.
- 12 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.
- 13 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections /observation of waveforms.
- 14 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 15 Weight : 2.300 Kg. (Approx.)
- 16 Dimension : W 340 x H 125 x D 210

OTHER APPARATUS REQUIRED

- 01 Dual trace CRO 20MHz OMEGA TYPE CRO-20

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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