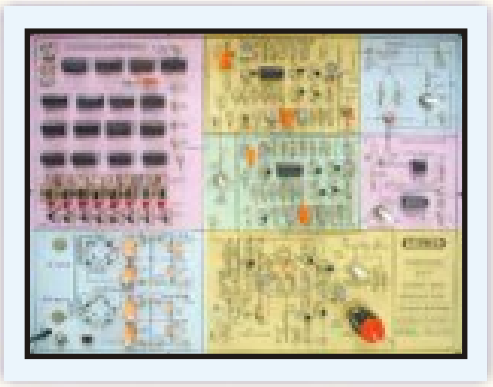
AMPLITUDE SHIFT KEYING MODULATION/ DEMODULATION SYSTEM TRAINER

MODEL-COM114

This trainer has been designed with a view to provide practical/experimental knowledge of A.S.K. Modulation /Demodulation technique as practically implemented in Digital Communication systems on a SINGLE P.C.B.



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 to 12 KHz.
   - Data Format : NRZ & Bipolar NRZ.
4. On Board RF carrier signal generator.
   - Frequency Range : 200 KHz to 1 MHz.
   - Amplitude : 0 to 10 Vpp.
5. Modulator Type : Balanced modulator.
6. Demodulator Type : Diode detector, Product detector
7. All parts are soldered on single PCB with complete circuit diagram Screen-printed.
8. Standard Accessories : A Training Manual
   Connecting Patch cords.

EXPERIMENTS

1. To study theory of ASK Modulation & Demodulation.
2. To generate ASK signal using Product multiplier.
3. To demodulate ASK signal using Diode detector (Envelope detector) and to see the effect of different RC time constant on demodulated output.
4. To demodulate ASK signal by Square law detector.
5. To generate ASK-SC signal.
6. To demodulate ASK-SC signal using Product detector (i.e. coherent detection).
7. To see the effect on ASK modulated output by for different input binary codes.
8. To see the effect on ASK modulated output by varying the frequency and amplitude of carrier oscillator.
9. To see the effect on ASK modulated output by varying the bit clock frequency.

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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