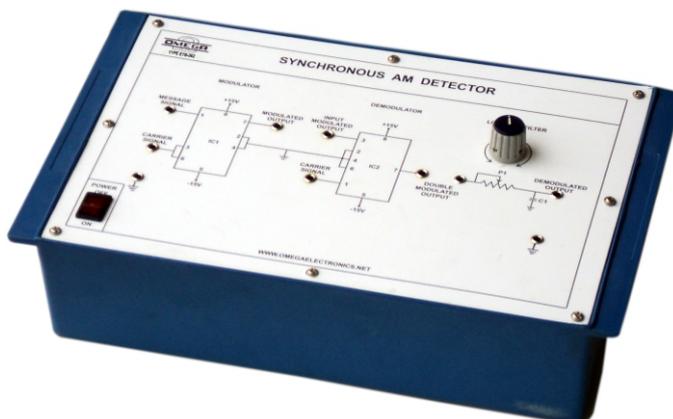


**SYNCHRONOUS AM DETECTOR**  
OMEGA TYPE ETB-262



**OMEGA TYPE ETB-262** In any receiver a key element is the detector. Its purpose is to remove the modulation from the carrier to give the audio frequency representation of the signal. Synchronous detection is used for the detection or demodulation of Amplitude Modulation (AM). This form of modulation is still widely used for broadcasting on the long, medium and short wave bands despite the fact that there are more efficient forms of modulation that can be used today. Synchronous detectors are considerably more complex than simple envelope detectors. ETB-262 is a Synchronous AM Detector experiment platform with both modulator and synchronous detector for demodulation. This provide Students the basic knowledge of how a synchronous detector works, and students can also measure the modulation index and observe the different waveform for Amplitude Modulation. ETB-262 comes with inbuilt Power Supply.

**OBJECT**

To study the following :

- 01 Study and observe the working of Amplitude Modulator.
- 02 Study and observe the working of Synchronous Detector

**FEATURES**

The board consists of the following built-in parts :

- 01 A self contained learning platform.
- 02 Functional blocks indicated on board mimic
- 03 On board modulator and demodulator
- 04 Input-output and test points provided onboard
- 05 Built in DC Power Supply
- 06 Fully documented operating manual
- 07 Compact size

**TECHNICAL SPECIFICATION:**

- 01 Block Diagram : 01 Modulator AM modulator
- 02 Demodulator
  - 2.1 AM modulator
  - 2.2 Low pass circuit
- 02 Mains Supply : 230V ±10%, 50Hz
- 03 Power Consumption: 3VA (approx)
- 04 Weight : 2.00 Kg (approx)
- 05 Dimensions (mm) : W315 x D125 x H210

**LIST OF ACCESSORIES**

- 01 Patch cord 4mm length 50cm Red. ....02
- 02 Patch cord 4mm length 50cm Black.....02

**OTHER APPARATUS REQUIRED**

- 01 Function Generator Omega Type FG-321.....02
- 02 Dual trace CRO 20MHz
- OMEGA TYPE CRO-20.....01

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

**OMEGA ELECTRONICS**