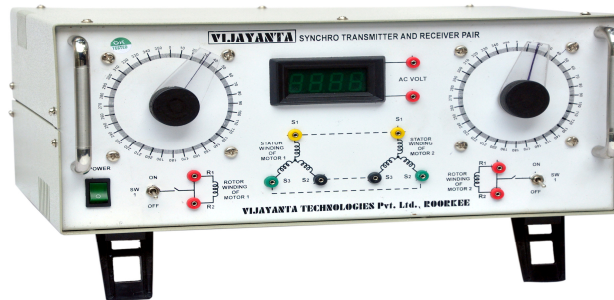


STUDY OF SYNCHRO TRANSMITTER AND RECEIVER PAIR TRAINER MODEL : VE- 1113.



The system set up is made up of synchro transmitter and synchro receiver on a single rigid base provided with suitable switches and anodized angular plates. The system also contains a step down transformer for providing excitation to the rotors.

A synchro is an electromagnetic transducer commonly used to convert an angular position of a shaft into an electric signal.

The basic synchro is usually called a synchro transmitter. Construction is similar to that of a three phase alternator. The stator (stationary member) is of laminated silicon steel and is slotted to accommodate a balanced three phase winding which is usually of concentric coil type (three identical coils are placed in the stator with their axis 120 degree apart).

The input angular displacement dial display on the front panel shows the angular movement. The output angular displacement dial display on the front panel shows the angular movement. The rotor terminals (R1 & R2) and three stator terminals (S1, S2 & S3) are brought out on the front panel for both the synchro motors. One digital panel meter measures the AC voltages (0-200 Volt AC) i.e. for taking the readings of stator & rotor voltages of motors. Power Supply : 230 Volt, 10%, 50 Hz.

The classical synchro systems consist of two units :

1. Synchro Transmitter (Tx)
2. Synchro Receiver (Tr)

EXPERIMENTS :

Study of synchro motor separately for rotor & stator output characteristics. Study of synchro motors as transmitter & receiver pair as error detector.

- Weight : 10 Kg Approximately
- Dimension : 250mm × 350mm × 150mm

Note: There may be any change in specification due to continuous R & D without notice.

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