



Position Control System using Synchroscope – Trainer Kit

List of Experiments

1. Basic characteristics study – stator voltages as a function of the rotor angle using the built-in AC voltmeter.
2. Operation and error study of the transmitter-receiver pair as a simple open loop position control system at a very low torque.
3. Plotting the error voltage output as a function of the transmitter rotor angle with the receiver rotor locked.
4. Use of balanced demodulator to develop DC error signal with appropriate polarity and compare it with the AC error.

Features

Display System

- The input angular displacement displayed on anodized dial.
- The output angular displacement displayed on anodized dial.

Synchroscope Terminals

- Two rotor terminals (R1 & R2).
- Three stator terminals (S1, S2 and S3) are brought out on the front panel.

Synchro System

- Synchro transmitter-receiver pair with calibrated dials.
- Locking system for receiver rotor.
- Receiver use as control transformer.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Signal Processing

- Built-in balanced demodulator circuit.

Measurement Facility

- Panel meter for AC/DC voltages

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