

KCL - 04
SYNCHRO TRANSMITTER & RECIEVER



This set up is designed to demonstrate the working of a synchro (torque) transmitter with the help of a synchro receiver.

Features

- The input angular displacement displayed on anodized dial.
- The output angular displacement displayed on anodized dial.
- Two rotor terminals (R1 & R2) three stator terminals (S1, S2 and S3) are brought out on the front panel.
- Synchro transmitter-receiver pair with calibrated dials provided in Metal Sea through enclosure.
- Locking system for receiver rotor
- Receiver use as control transformer
- Built-in balanced demodulator circuit
- Panel meter for ac/dc voltages
- **Interconnections**
 - All interconnections are made using 2mm banana Patch cords.
- Test points are provided to analyze signals at various points.
- All ICS are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCB is used.
- In-Built Power Supply with Power ON indication
- Attractive ABS Plastic enclosures.
- Set of 2mm Patch cords for interconnections
- User's Manual

List of Experiment

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

Note : Specifications can be altered without notice in our constant efforts for improvement.