

AC Position Control System

Model : SE-1022



SINC COM SE-1022 AC Position Control System is an exceptional trainer specifically designed for studying AC Position control systems. It features an AC Servo motor that is mounted on a single phase auto transformer, which is controlled by a control transformer, servo sensing, amplifier, and relay driver circuit. This system allows for precise changes in the position of the AC Servo motor based on the applied AC Input voltage, resulting in a single phase servo stabilized AC output. Additionally, it provides the user with the ability to observe the angle (Position) of the AC servo motor, and includes LED indicators for line voltage, load voltage, Over (OV) & Under (UV) voltage.

Features

- ❖ AC Servo Motor
- ❖ Servo Stabilized AC Output
- ❖ Marked 0-360° Angle position scale
- ❖ LED Indicator for line voltage, load voltage, OV and UV
- ❖ Presents a multi-color Circuit Diagram printed on the front panel of the white board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ Interconnections by 2mm high quality banana sockets and pins.

Technical Specifications

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|--------------------------|---|
| ▪ AC Mains Power Supply | : 230V ±10%, 50Hz |
| ▪ Servo Motor | : AC Servo Motor |
| ▪ AC Input Voltage Range | : 170-280V, 50 Hz |
| ▪ AC Output Voltage | : 230, 50 Hz |
| ▪ Power | : 1KVA |
| ▪ LED Indication | : Line and Load Voltage, Over and Under Voltage |
| ▪ Angle Position Scale | : 0-360° |



An ISO 9001:2015 Co.

- Weight : 5.0 kg (approx)
- Dimensions (mm) : L 444 x W 127 x H 539
- Interconnections : 2mm Banana sockets
- Operating Temperature : 0-55⁰C, 80% RH

Learning Scope

- To study Principal of AC Position Servo Controlled Stabilizer.
- To Study movement of Servomotor w.r.t. change in I/P.
- To study the Operation of Servo Controlled Stabilizer.
- To Observe change in O/P Voltage w.r.t. change in I/P voltage.
- To Determine the I/P Voltage Range for which O/P Voltage is Constant.

Other Instruments Required : Single phase Dimmerstat (Variable AC I/P Source), Digital Multimeter.

Accessories Included : Set of Patch Cords, Detail Instruction Manual.