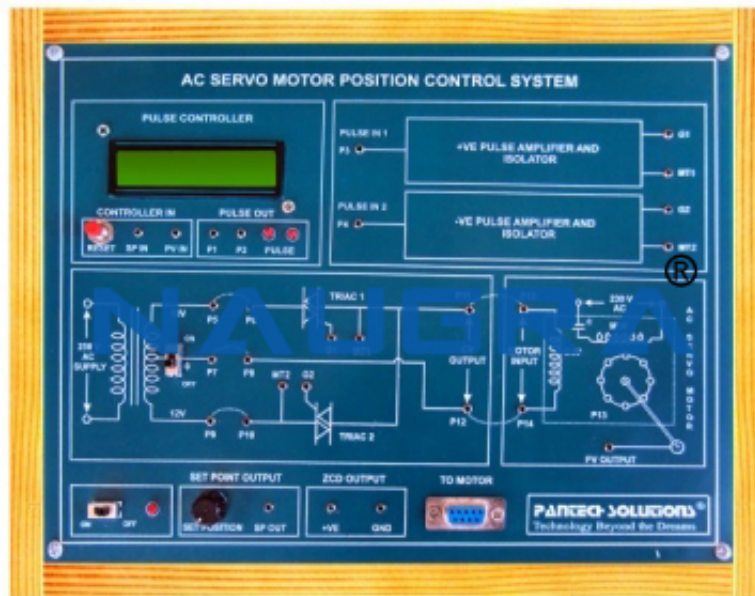


Product Name :
AC Position Control System Using PID

Product Code :
NLAB-TECHNICALAB16001



Description :

AC Position Control System Using PID

Technical Specification :

Features of AC Position Control System Using PID

- One 230/12V AC Servo Motor with gear, fixed on a mechanical frame with position dial indication.
- One position Servo pot is fixed with motor gear side for position sensing.
- Two nos. Line synchronized firing circuits for TRIAC.
- One Op-Amp PI Controller for control circuit.
- One 16/4 LCD display to indicate the set position and actual position in degree (0-355°).
- One potentiometer is provided to vary the motor position up to 355°.
- +15V DC, 9V AC for control circuit, 230/12V AC for Power Circuit.
- One 4 Mfd/230V AC Capacitor is provided for Motor.

Controller

- Dspic 4011 Micro Controller Based PID Control System.
- Operating Voltage 5v & Operating Frequency 20MHZ.

Mechanical Set Up

- One 12V two phase ac servo motor with Gear provided.
- Motor speed 1500rpm.
- One Servo potentiometer provided at the low speed shaft for position setting.

Experiments

- To study the Operation of AC servomotor position control with PI controller.

Technical Specifications

- Kit Working voltage(220-240)VAC
- Input Voltage24V AC
- Input Frequency50Hz
- Output Voltage0 TO 24V AC
- Output Current0.5 Amps

Bundle of Contents

- Ac position control system
- Patch cards
- 6A power supply card
- 1A Fuse
- Manual

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