

Product Name :
DC Position Control System Using PID

Product Code :
NLAB-TECHNICALAB16002



Description :

DC Position Control System Using PID

Technical Specification :

Features of DC Position Control System Using PID

- 4 Quadrant MOSFET chopper provided for forward & reverse direction.
- MOSFET driver provided.
- One Op-Amp PI Controller for control circuit.
- One 20/4 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&-15VDC, for control circuit, 24V DC for Power Circuit.

Mechanical Set Up

- One PMDC 24 volt with Gear provided.
- Motor speed 1500rpm.
- Gear ratio 30: 1 to run 50rpm speed.
- One Servo potentiometer provided at the low speed shaft for position setting.

Experimental

- Study the position sensor (Servopot).
- Study the **DC servomotor position controller with P controller.**
- Study the **DC servomotor position controller with PI controller.**
- Study the **DC servomotor position controller with PID controller.**

Technical Specification

- Kit Working voltage: (220-240)VAC.
- Input Voltage: 24V AC.
- Input Frequency: 50Hz.
- Output Voltage: 0 TO 24V DC.
- Output Current: 1Amps.

Bundle Contents

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

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