

Product Name :
DC Position Control System Using PID

Product Code :
NLAB-TECHNICALAB16007



Description :

DC Position Control System Using PID

Technical Specification :

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.

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.

Kit Working voltage: (220-240)VAC.
Input Voltage: 24V AC.

Input Frequency: 50Hz.
Output Voltage: 0 TO 24V DC.
Output Current: 1Amps.

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