DC Servo Motor Trainer

Category: Mechatronics · Model reference: MZM-2009



SPECIFICATIONS

Description:
DC Servo Motor Trainer
DC Servo Motor Trainer is an equipment to do an experiment for speed operation, position control by PID control. Students can easily understand the basic principle and characteristics of DC servo motor.
Using computer, students can do experiments for PID control, Analog control and Digital control.
It designed to get the curved line processed on CRT and students are able to save and print the file.
Angular control system is used for position control and brake system is equipped for constant-speed experiment.
Experimental List
- Basic Operations Practice of Servo-Motor
- Basic Operations Practice of Servo-Motor
- Brake Practice of Servo-Motor
- Frequency Response Practice of Servo-Motor

What is PID Control?
- What is PID?
- Speed Practice of Servo-Motor with PID
- Brake Practice in Speed Practice with PID
- Summing AMP Response Practice with PID

Position Control Practice
- Position Control Practice
- Position Control Practice by Computer Interface

Specification
- Power : 1Ø AC
- DC Power : ± 15V DC
- Computer Interface : RS - 232
- Meter : Speed, Ampere, Voltage each 1EA
- Speed and Position Indicating : 2×16 LCD
- Brake : Eddy Current Type

Control Mode
- Speed Detector
- Summing Amp Block
- P. I. D. Controller Block
- Motor Drive Amp Block
- Brake Amp Block
- A/D & D/A Converter Block
- Computer Interface Block
- Square Wave Generator Block
- Position Indicating and Monitor Block
- Counter Output Block(8 Bit Binary)
- Potentiometer Block
- Reset Switch

Machine Device
- DC Servo Motor
- Balancing Position Control System
- Brake

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