



AC SERVO CONTROL TRAINER (SMT-511)

Servo motors play a very important role in industry process. These servo motor can be AC or depending on the requirement. SMT-511 contains a high speed, high functionality AC servo driver and motor. This driver can realize velocity, Position and Torque response of the drive. Standard line-up includes full-closed control and auto-gain tuning function and the motors with 2500P/r incremental encoder. This Trainer has Touch LCD Display and Control for monitoring and Control of the servo motor features.

TECHNICAL SPECIFICATIONS

- Touch LCD Display and Control.
- Setting Parameters using LCD.
- Experiments Control using LCD.
- **AC Motor:** Panasonic A4 Servo motor. 90V, 200W with 2500PPR encoder.
- **Motor Driver:** Panasonic A4 Servo driver.
- **Power Supply:**
 - DC Power Supply
 - Variable Power Supply
- **Control Inputs:**
 - Function Generator
 - Connector for PLC interface
- **Position Response:** 1KHz
- **Vibration Reduction**
- **Damping Control**
- **Control Modes:** Position, Velocity & Torque
- **Dynamic Brake:** Built In
- **Closed Loop Control:** Position & Velocity
- **Torque Limit:** 2 possible values
- **Protection:** Current, Voltage, Temperature and Over Power
- **Command Input:** Pulse, control signal $\pm 10V$



Experiments Included

- Configuring the AC Servo
- External Direction Control
- Internal Speed Control (Digital)
- External Speed Control (Analogue)
- Position Control (Digital)
- Torque Control