

Solenoid Control System LCET Series



The Solenoid Control System is designed for Cycling and Endurance Testing of electro-mechanical components. The system may be used as both an engineering evaluation and production quality assurance tool. Each system may drive up to thirty two independent devices with different actuation profiles.

The typical applications of the tester is life cycling of the solenoids, electro-magnets, relays, motors, voice coil motors, actuators, valves, keyboards, switches, and other applicable devices. The other applications of the Solenoid Control System is testing and evaluation of shock and vibration systems.

The compact and stand-alone unit consists of controller, drivers, and the power supplies. It conveniently connects to the host computer.

The system may be controlled in different ways;

1. **Stand-alone**

In this mode, the controller does not need an external device such as a PC to operate. The controller is programmed in a simple programming language. The code is developed, downloaded to the controller, run and saved in the controller's non-volatile memory using the supplied Integrated Development Environment (IDE) software.

2. **Externally Controlled**

In this mode, the external host such as a PC, micro-controller or PLC sends a series of commands to the controller via the RS-232 serial port. The controller processes and performs the incoming commands and responds with proper messages.

3. **Externally Triggered**

In this mode, the external host such as a PC, micro-controller or PLC sends the controlling pulses to activate the solenoids.



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Features

- Compact
- Plug-and-Play
- Stand-alone
- Runs Multiple Devices Simultaneously
- Complete Unit Integrates Controller, Power Supplies and Drivers
- Quick and Easy to Install
- Very Compact and Easy to Use
- Easy Programming Language, No Compiler or Assembler Required
- Different Modes of Operation:
 - 1) Host Controlled
 - 2) Stand-alone, No PC Required to Operate

Actuators

- Linear and Rotary Solenoids
- Voice Coil Actuators

Actuator Driver

- Excellent Linearity
- Pulse Width Modulated (PWM)
- Wide Output Voltage
- High Output Current

Mechanical

- Size: 10.0" (25.4 mm) W X 10.8" (265.00 mm) D X 4.875.00" (124 mm) H
- Material: Aluminum, 0.09" (2.3 mm) Thickness
- Available in 19" Rack Mount Enclosure

Power Requirement

- 110 VAC, 50 ~ 60 Hz **Or**
- 220 VAC, 50 ~ 60 Hz **Or**
- +12 VDC to +50 VDC

Typical Applications

- Solenoids
- Valves
- Relays
- Actuators
- Voice Coil Actuators
- DC Motors
- Hydraulics
- Electromagnets
- LEDs

Feedback Devices

- Proximity Sensors
- LVDTs and RVDTs
- Laser Interferometers
- Pressure Transducers
- Any Analog Signal
- Absolute and Incremental Optical Encoders

General Specifications

- LED Power Indicator
- High Performance Line Filter
- Compact Industrial Enclosure
- Drives up to 32 Devices Simultaneously



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