

# Multiple Switch Tester

## Model MST 600

The MST 600 is an easy to use, fully automated tool designed to verify the proper operation of Load Switches, Flashers, and Transfer Relays that are used in traffic signal installations conforming with NEMA or CalTrans specifications.

The tester auto-detects the device plugged in at turn-on and prompts the user with a few options prior to starting a test. The MST 600 goes beyond the basic functionality tests offered by other testers, to assure specified operation within all testable standards.

The tester is housed in a sturdy metal case that can be ordered for bench or rack use. A 3 button user interface provides an easy test set up without the layers of frustrating, hidden menus. Once the setup is established, the tester executes the tests and interprets the results automatically.

A 16 character by 2 line LCD offers a clear view of measurement results which can also be sent to the printer.

All ATSI test equipment ships with a standard 12 month warranty and Free Product Life-Time Telephone Technical Support.



## Features

- Quick and Accurate Measurement of:
  - Load Switch
  - Transfer Relay
  - Flasher
- Auto-detection of the device to be tested
- Load Switches tested to both NEMA and CalTrans specifications.
- Easy-to-use 3 button interface
- Printer option provides documentation of Preventive Maintenance history

## Specifications

### Electrical

Operating Voltage: 120V +/- 15V, 60Hz single phase

Operating Current: 10A max @ 120V

Main Power Switch: Illuminated rocker switch

Fused Circuit A: 3AG 0.25A, Littlefuse series 312 or equal

Fused Circuit B: 3AG 10.0A, Littlefuse series 312 or equal

### Mechanical

Dimensions: 17" x 14.5" x 5.25"

Weight: 13 lbs.



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# Tests performed by the MST 600

Addresses all testable NEMA & CalTrans specifications

## Load Switch

Note: No timing constraints are present in either standard for load switches.

### Inputs (RYG)

Input Current Draw  
Input Voltage Pullup  
Input Enabling Thresholds

### Outputs (RYG)

Output Leakage in Off State  
Output Response to Enabling Input Signals  
Output operation at both 50mA (single LED lamps) and 10 Amp (multiple incandescents)

## Flasher

Note: Internal timer creates timed inputs, all measureables are outputs.

### Outputs, FL1 and FL2

Output leakage in off state  
Output flash rate  
Output on-time flash durations  
Output overlap/underlap

## Transfer Relay

The Transfer Relay is a double-pole, double-throw electromechanical relay. The tests are organized to create a unique path through the relay for each input/output pair, 4 in all. Tests are run at both 50mA and 10A load conditions, a total of 8 tests in all.



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