



## ATS-500 Door Operator Testing

Consolidated, functional test, part of the ATS-5000 Series

### Ultimate Flexibility

Astronics has provided automated BTE for electro-mechanical door operator and associated equipment to numerous mass transit customers.

The ATS-500-DO can be configured to test your equipment as a stand-alone complete BTE or as an addition to an existing ATS-500 supporting the following UUTs:

- Linear motor door designs
- Rotary motor door designs
- Door locking mechanisms
- Door unlocking mechanisms
- Load simulation to represent physical door parameters
- Emergency release systems
- Single leaf door operators
- Dual leaf door operators

Fully integrated safety systems to protect the operator.

Astronics Test Systems delivers your solution with an open architecture based on industry standards for fast, easy configuring and efficient operation.

The ATS-500-DO is your state-of-the-art choice to ensure optimal mechanical performance of any door system.

### Test It All

Test your door systems from board to mechanical assembly level at your factory or repair depot.

#### Services:

- Engineer-to-engineer collaboration and customization
- Interface Test Adapter Development
- Program management
- Installation and ongoing support

### KEY BENEFITS

- **Save time and cost** -complete turnkey solution
- **Upgradable, modular, and configurable** - select COTS instruments to configure, update, or expand functionality to meet your exact requirements
- **Efficient** - consolidated footprint to maximize space in your depot or factory
- **Flexible** - based on industry-standard instrumentation such as LXI, PXIe, and others
- **Supportable** - dedicated engineering, factory, and field support staff

**A Complete Menu of Test Functionality.** Configure your system for your needs with any variety of core COTS instruments and components, including:

- PXI instrumentation
- Force measurement
- Mechanical load simulation
- Power supplies

Select components from the library of products offered by Astronics Test Systems, or, if you prefer, select third party instruments for integration - the choice is yours.

**Expandable.** ATS-500-HP is based on an open architecture and industry standards, including PXI, LXI, GPIB, IVI, IEEE-488, USB, Windows and others.

Configure your system as you need it now and add as you go to expand in size, power, and functionality.

**Software.** Astronics' proven TestCue® software comes standard.

With TestCue® you receive intuitive, easy-to-use system software that minimizes your time and cost to deliver, run, and maintain test program sets. With plugins to COTS software such as LabView, test programs sets are easily created.

**Manufacturing At Scale.** With more than 150,000 square feet of certified manufacturing capability, our manufacturing processes follow industry-standard quality guidelines set forth in ISO 9001 and AS9100, as well as CMMI. We



can manufacture one unit or thousands, depending on your need.

**All from the Logistics Experts.** Astronics Test Systems excels at delivering complete logistics support, with installation, training, and support engineers deployed to your location.

Astronics' long history of field support and obsolescence management ensure long term success and maximum utilization of your functional test investment.



## Get Started Today

For additional details, please contact Astronics Test Systems.

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## ATS-500-DO SPECIFICATIONS

### CAPABILITIES

- Full functional test of door operator LRUs and LLRUs
- Door closing time and door opening time
- Ethernet, LAN and serial interfaces
- Programmable motor drives
- Programmable loop testing for intermittent operator issues
- Diagnostic self-test capability for the tester will be provided including diagnostic to module level.

### DIGITAL and ANALOG I/O

- Configurable to meet your voltage range
- Scalable from 32 pins to more than 256 pins. Mixed signal flexibility at every pin.
- Multi-channel analog stimulus
- Multi-channel analog measurement

### SAFETY

- Integrated safety systems
- Hardware controlled safety locks
- Hardware controlled voltage monitoring
- Locking mechanisms prevent input power to the unit under test if safety conditions are not met.

### INSTRUMENTS

- COTS Oscilloscope
- DMM with LCR capability
- 4-Wire resistance measurements
- Force and torque gauges
- Current probes
- Data acquisition

### PXIe

- 18 slot PXIe Chassis for COTS instrument

### BUS EMULATION

- Serial Bus Capabilities - I2C, SPI, UART, USART, CAN, USB, RS232, RS485, RS422, Ethernet, ESPI, 1-Wire, MICROWIRE
- Parallel Bus - IEEE-488

### POWER

- Serviceable programmable power supplies as needed for the target application
- Electrical loading as required
- 120 VAC input power (typical)
- 208 VAC as required