



NSN: 6625-01-668-5125

ATS-6100 WFT Wire Fault Tester

Complete wire fault detection, isolation, and repair in the toughest environments

Powerful, Portable Test

Support aging and high vibration equipment well beyond design life with the help of the ATS-6100 WFT Wire Fault Tester. Combining patented Low Energy, High Voltage (LEHV) and Spread Spectrum Time Domain Reflectometer (SSTDR) technology, the tester's unique design is a pioneer in non-destructive inspection techniques.

The ATS-6100 WFT precisely locates and assesses both existing and potential wire faults including opens, shorts, impedance discontinuities, and cracked or chuffed wiring on controlled and uncontrolled impedance wiring. As a fully functional, self-contained test

Ideal for use on:

- Military or commercial aircraft
- Ground vehicles
- Boats
- Ships
- Any high-vibration equipment

platform, testing and verifying the integrity of wiring is easy, whether in a field-deployed, depot, or factory-type environment.

This is the newest addition to Astronics' lineup of portable solutions, which provides powerful support to critical teams worldwide, wherever and whenever they need it most.

Accurate, Reliable Results

Cut costs and save precious time spent replacing unnecessary equipment due to inaccurate, misdiagnosed, or no fault found results.

The ATS-6100 WFT safely delivers the perfect balance of voltage and energy, isolating existing and potential faults before catastrophic failure occurs. The ruggedized, tablet-based platform contains all necessary hardware and software for verification testing and fault detection, isolation, and repair of metallic wiring with superior noise rejection.



KEY BENEFITS

- **Prevent catastrophic failure** - pinpoint faults, opens, and shorts
- **Save time and cost** - end unnecessary equipment replacement
- **Continued support** - extend the life of aging equipment
- **Ensure safety** - locate and repair faults before issues arise
- **Convenient and simple** - handheld, user-friendly tablet
- **Longevity** - test current and future metallic conductor wiring
- **Long-term partner** - nearly 60 years' expertise in test and integration

Safe, powerful results. Prior to executing any tests, the ATS-6100 WFT performs extensive safety checks to ensure that the application of the high voltage stimulus is no cause for concern. After successful pre-checks, the tester controls the energy applied to the wiring under test, unlike standard hipot testers.

Leave complex wiring undisturbed. Often, maintainers must terminate the opposite end of a cable before conducting a test, greatly increasing the risk of issues caused by human error. Astronics' solution is a single-ended application, eliminating the need to search through a network of wires for the other end.

Wire testing for today and future systems. Because of its Windows-based platform, the ATS-6100 WFT gives you the flexibility to test wiring both in aging and future equipment. Configurable for your needs, all functions are integrated into a user-friendly touchscreen interface, hiding complexity and simplifying any necessary training.

Your Long-Term Partner.

With nearly 60 years of expertise in the test field and a proven track record of providing leading-edge test solutions, Astronics Test Systems is committed to product support and customer collaboration for decades to come.



The ATS-6100 WFT features an intuitive, touchscreen interface and Windows-based software.

From the Test Systems Experts.

Astronics Test Systems has provided military, aerospace, semiconductor, medical, and a host of other industry customers with test instruments since 1961. The ATS-6100 WFT brings the best of our test system development wisdom to you in a simple, seamlessly integrated platform.

Get Started Today

For additional details, please contact Astronics Test Systems.

12889 Ingenuity Dr.
Orlando, FL 32826
+1.407.381.6062
ATSales@astronics.com



AstronicsTestSystems.com

ATS-6100 WFT SPECIFICATIONS

LEHV ACCURACY

User Entered VoP:

- Controlled Impedance: (+/- 3% of reading + 0.2%) + VoP Uncertainty
 - Uncontrolled Impedance: (+/- 5% of reading + 0.5') + VoP Uncertainty
- VoP Semi-Auto Calculation¹:
- Controlled Impedance: +/- 5% of reading + 0.2'
 - Uncontrolled Impedance: +/- 10% of reading + 0.5'

SSTDR ACCURACY

User Entered VoP:

- Controlled Impedance: (+/- 3% of reading + 0.2%) + VoP Uncertainty
 - Uncontrolled Impedance: (+/- 5% of reading + 0.5') + VoP Uncertainty
- VoP Semi-Auto Calculation:
- Controlled Impedance: +/- 5% of reading + 0.2'

- Uncontrolled Impedance: +/- 10% of reading + 0.5'

GENERAL CHARACTERISTICS

Tester:

- Dimensions: 8.2 in. H x 11.4 in. W x 3.5 in. D
- Weight: 11.4 lbs. (5.17 kg)

Tablet:

- Device: Integrated Intel i7
- Processor: Intel® Core i7-3537U
- Hard Drive: 128 GB mSATA SSD
- USB: 2 ports
- Ethernet: 1 port
- Battery Type: Dual Lithium Polymer Battery Packs
- Battery Voltage: 11.1V, 4200mAh
- Battery Operation: >6 hours (typical)
- Luminance: 800 nits

¹Using SSTDR and known length of similar wire

Contract Number: N6833517D0016 **NSN:** 6625-01-668-5125