TestVonics™ Flightline Digital Air Data Test Sets

ADTS-3350ER Air Data Test Set

Air Data Test Set Replacement for all
TTU-205 and ADTS 405F

Rugged and durable design for
Flightline Environments

Calibrate, test and troubleshoot
Aircraft & Instruments

High Precision and
RVSM Compliant

Model: **ADTS-3350ER**
NSN: **4920-01-662-3920**

ADTS-3350 Flight Line Air Data Test Set

TestVonics ADTS-3350 Test Set is a portable, high precision, dual channel air data / pitot static pressure management system. This tester is designed to calibrate, test and troubleshoot air data instrumentation and aircraft pitot-static systems. As common equipment, the ADTS can be used to test both commercial and military aircraft; fixed wing and rotary wing, fighter jets to cargo and passenger aircraft.

ATTACK/FIGHTER
CARGO/AIRLIFTER
ROTARY-WING
AIRLINERS/JETS

Features

The ADTS-3350 features an expansive 8.4-inch LED backlit display with an optically bonded touchscreen. This helps to provide optimal visualization and viewing angles even in direct sunlight. The LED backlit keypad is used to control the test set and can be easily operated using gloves. Operating from 90-260 VAC 45-440 Hz power, the ADTS is ideally suited for varying hangar, ramp and flight-line power sources. The ruggedized and durable case features a field-replaceable retractable handle and durable wheels providing excellent single operator transport and maneuverability.

Simple and Intuitive Interface

The ADTS-3350 graphical user interface is intuitive and has been designed to eliminate the operator learning curve. Modes of operation can be cycled while testing and the display is uncluttered and easy to read.

Protection and Safety Features

The ADTS-3350 is designed with both hardware and software safety features designed for maximum protection when testing. The ADTS features input pressure regulation, over-range, over-limit and over-pressurization protection. Micro-porous filters and screening prevent debris from entering the system. The test set is equipped with pressure relief valves and a Negative Qc valve to protect the ADTS and the Unit Under Test (UUT) from damage. In the unlikely event that the test set loses power, the UUT is isolated - the front panel manual vent valve can then be used to safely vent both the test set and the UUT to ambient.

Aircraft Select Mode allows the operator to select pre-loaded Aircraft profiles. Once selected, the ADTS limits the ranges and rates to the specific aircraft under test. Each aircraft profile can store individual test sequences which can be selected and run by the operator. Test sequences provide improved test consistency. Aircraft profiles and test sequences can be created and/or edited using Profile Builder software.

Remote Control Unit (RCU) Options

TestVonics advanced handheld Remote Control Units (RCU) allows the operator to perform aircraft checks and control the test set directly from the cockpit. The RCU features a 7.0-inch touchscreen display with an intuitive interface which mimics the main units display. A 25ft remote cable is included and a 25ft extension cable is available.

Automated Calibration

The ADTS-3350 can be calibrated automatically using TestVonics ADC Series Air Data Calibrators. Corrections are automated and require no mechanical adjustments. The transducers have been proven to hold

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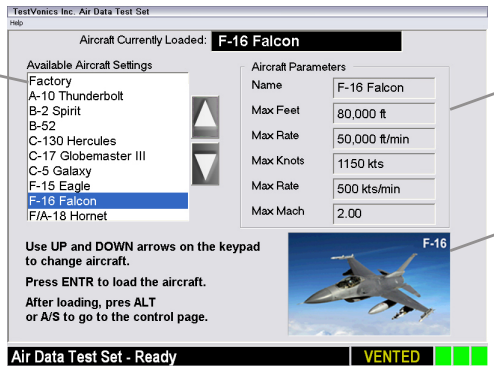
Specifications

Altitude (Ps) Range[1†]	-3,000 to 80,000 ft **Extended range(s) available*
Static (Ps) Sensor	0.350 to 38.000 inHg
Altitude Accuracy	±3 ft @ 0 ft ±7 ft @ 30,000 feet ±36 ft @ 65,000 feet ±75 ft @ 80,000 feet RVSM COMPLIANT
Altitude Rate[2]	0 to 50,000 ft/min
Altitude Rate Accuracy	±10 ft/min or ±1% of setting
Altitude Resolution	1 ft, 0.01 mbar, 0.0001 inHg (Ps), 0.01 mmHg
Altitude Units[3]	feet, meters, inHg, mmHg, mbar, hPa, PSIA
Airspeed (Pt) Range[1]	0 to 1,000 knots
Pitot (Pt) Sensor	0.350 to 110.000 inHg
Airspeed Accuracy	±1.5 kts @ 50 knots ±0.1 kts @ 550 knots ±0.05 kts @ 1,000 knots
Airspeed Rate[2]	0 to 800 kts/min
Airspeed Rate Accuracy	±1% of setting or ±10 kts/min
Airspeed Resolution	0.1 kt, 0.01 mbar, 0.0001 inHg (Pt), 0.01 mmHg
Airspeed Units[3]	IAS/CAS, kts, Mach, inHg, mmHg, mbar, hPa, PSIA, kph
Display	8.4-inch LED backlit Touchscreen LCD
Interfaces	External: Remote, Service / Internal: RS-232, USB [4]
Altitude (Static) Port	Standard: Male JIC 37° -6 AN Stainless Steel bulkhead
Airspeed (Pitot) Port	Standard: Male JIC 37° -4 AN Stainless Steel bulkhead
Calibration Cycle	One (1) year
Power Requirements	90-265 VAC, 45 - 440 Hz, 1 Phase
Dimension / Weight	25.4 x 20.0 x 14.5 in / 62.2 x 50.8 x 36.8 cm (L x W x H) 82 lbs (without manifold) 84 lbs (with manifold)

Intuitive User Interface with Aircraft Pre-Select

Pre-loaded Aircraft list (varies)

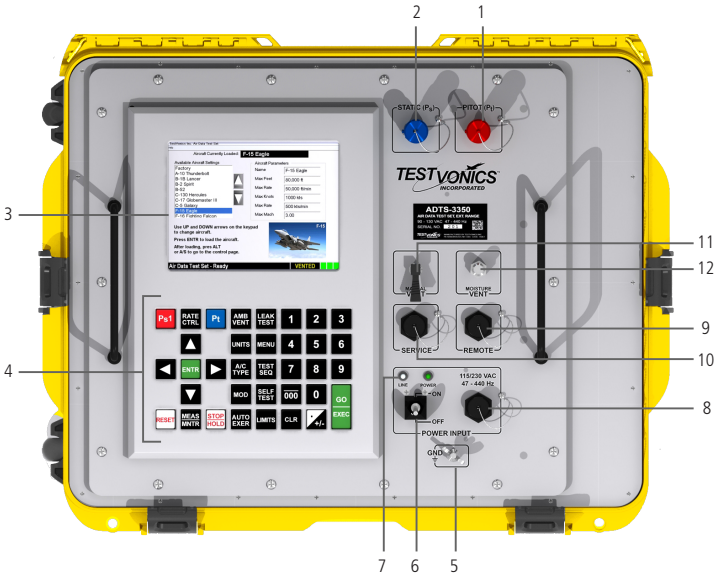
Note: aircraft can be pre-loaded per request. Aircraft profiles and test sequences can be created or modified using Profile Builder software *(included with test system*



Selected Aircraft Ranges and Limit settings

Aircraft Image *(stock or custom)*

ADTS-3350ER Front Panel Features



1. Airspeed Pitot (Pt) input
2. Altitude Static (Ps) input
3. 8.4" LED Touch Display
4. Backlit Color Keypad
5. External Ground
6. Power Switch
7. Power/Line Indicator
8. AC Power Input
9. Remote Control port
10. Service port
11. Manual Vent
12. Moisture Vent

ADTS-3350 Series Case Features

Ruggedized impact resistant case compliant with ATA 300 and MIL-STD-810F

4 Pitot /4 Static output Air Data Manifold *(optional)*

Field replaceable 2-stage retractable handle with polyurethane wheels

Automatic Pressure Relief Valve

Large soft grip handles

Available Case Colors: Yellow Gray Green Black Orange

New! ADTS Remote Control Unit

Durable molded rubber boot

7.0-inch touchscreen display

Protective padded nylon storage case and microfiber cloth (included standard)

1) Standard ranges listed. Ranges may be configured to comply with customer specific requirements - contact TestVonics for more information † -10,000 to 99,000 ft Altitude Range is also available per customer requirement. 2) The Altitude and Airspeed Slew Rates are load dependent. Slew rates and load test requirements may vary based on volume of the DUT. 3) Standard units of measurement listed, additional units may be available upon user request. 4) Internal USB ports can be removed or disabled at customers request.

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