

ADTS-3350 Air Data Test Sets

**TTU-205
REPLACEMENT**

High Precision
RVSM Compliant

Rugged, compact durable design for
Flightline Applications

Calibrate, test and troubleshoot
Aircraft & Instruments

ADTS-3350 is common equipment
that can be used for a variety of
Commercial Aircraft

P/N: ADTS-3350ER (Ext. Range)
ADTS-3350MR (Mid Range)
ADTS-3350LR (Low Range)



ADTS-3350 Flight Line Air Data Test Set

TestVonics ADTS-3350 Test Set is a portable, high precision, dual channel air data pressure management system. This tester is designed to calibrate, test and troubleshoot air data instrumentation and aircraft pitot-static systems. The test set has been designed with functional and reliability features highly suited to withstand the harsh environmental and demanding conditions of the flight line environment. The test set is designed for testing a wide range of commercial and military aircraft, both rotary and fixed wing. The ADTS-3350 accuracy complies with standards for RVSM.

Features

The ADTS-3350 features a brilliant 8.4-inch transfective, high-bright ruggedized LCD display. The display features an optically bonded resistive touchscreen and adjustable LED backlighting, which provide optimal visualization and viewing angle in direct sunlight. The backlit keypad is used to control the test set and can be easily operated using gloves or mittens. The ruggedized case features recessed hardware, a replaceable retractable handle and durable wheels for excellent maneuverability and single operator transport. The ADTS operates from 90-260 VAC, 45-440 Hz power, making it ideally suited for the varying hangar, ramp and flight line power sources.

Simple and Intuitive Interface

The ADTS-3350 software features an intuitive graphical interface which has been designed to virtually eliminate the operator learning curve. Mode 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 test set 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 to protect the pneumatic system components and the Unit Under Test (UUT) from damage. In the unlikely event that the test set loses power, the UUT is isolated. The manual vent switch on the front panel can then be used to safely vent both the test set and the UUT to ambient.

The ADTS features an Aircraft Select Mode, which allows the operator to select pre-installed or customized Aircraft or UUT. Once set, the software automatically limits the ranges and rates for the specific aircraft under test. Test profiles can be created for routine testing, providing improved test consistency.

Remote Operation

The ADTS-3350 Remote Control Unit (RCU) features a full color touchscreen LED display and a backlit keypad. The remote features the same display format found on the main unit and can perform all functions of the test set remotely. A remote cable is supplied.

Automated Calibration

The ADTS-3350 can be calibrated automatically through software. Corrections are done through software requires no mechanical adjustments. The transducers are able to hold their accuracy for a period of one year.

TestVronics™ ADTS-3350 Air Data Test Set

	Specifications
Static (Ps) Altitude Control Range ¹	- 2,000 to 35,000 ft (LR - Low Range) - 2,000 to 65,000 ft (MR - Mid Range) - 10,000 to 99,000 ft (ER - Extended Range)
Altitude Accuracy	± 0.003 inHg or 0.01%, whichever is greater RVSM →
Altitude Rate ²	0 to 50,000 ft/min
Altitude Rate Accuracy	± 10 ft/min or ± 1% of setting, whichever is greater
Altitude Units ³	feet, meters, inHg, mmHg, mbar, hPa, PSIA
Pitot (Pt) Airspeed Control Range ¹	0 to 650 knots (LR and MR) 0 to 1,000 knots (ER)
Airspeed Accuracy	± 0.003 inHg or 0.01%, whichever is greater
Airspeed Rate ²	0 to 400 kts/min (LR and MR) 0 to 800 kts/min (ER)
Airspeed Rate Accuracy	1% of setting
Altitude Resolution	0.1 kt / 0.01 mbar / 0.0001 inHg (Pt) / 0.01 mmHg
Airspeed Units ³	IAS/CAS, kts, Mach, inHg, mmHg, mbar, EPR, hPa, PSIA, kph
Display	8.4-inch LED backlit Touchscreen LCD
Interfaces	External (Remote, Service) / Internal (RS-232, USB)
Altitude (Static) Port	Self-sealing disconnect or Male JIC 37° bulkhead (AN6)
Airspeed (Pitot) Port	Self-sealing disconnect or Male JIC 37° bulkhead (AN4)
Calibration Cycle	One (1) year
Power Requirements	90-260 VAC, 45 - 440 Hz, 1 PH
Dimension / Weight	19.47 x 21.47 x 18.14 in (LxWxH) / 82 lbs

Front Panel Features

- Airspeed Pitot (Pt) input
- Altitude Static (Ps) input
- 8.4" LED Touch Display
- Backlit Color Keypad
- External Ground
- Power Switch
- Line Indicator
- Power Indicator
- AC Power Input
- Remote Control port
- Manual Vent
- Moisture Vent

ADTS Interface - Aircraft Select Mode

TestVronics Inc. Air Data Test Set
Help

Aircraft Currently Loaded: **F-16 Falcon**

Available Aircraft Settings

- Factory
- A-10 Thunderbolt
- B-2 Spirit
- B-52
- C-130 Hercules
- C-17 Globemaster III
- C-5 Galaxy
- F-15 Eagle
- F-16 Falcon**
- F/A-18 Hornet

Aircraft Parameters

- Name: F-16 Falcon
- Max Feet: 80,000 ft
- Max Rate: 50,000 ft/min
- Max Knots: 1150 kts
- Max Rate: 500 kts/min
- Max Mach: 2.00

Use UP and DOWN arrows on the keypad to change aircraft.
Press ENTR to load the aircraft.
After loading, pres ALT or A/S to go to the control page.

Air Data Test Set - Ready **VENTED**

Remote Control Unit NSN: 7035-01-662-3604

Molded rubber edges

3.5" color, sunlight readable Touchscreen display

Backlit Keypad 30-key backlit rubber keypad

Hand Strap

Case Features & Maneuverability

Telescoping 3-stage field replaceable handle

Recessed MOPP IV complaint grasp handles

¹) Standard ranges listed. Ranges may be configured to comply with customer specific requirements - contact TestVronics for more information 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 (at time of print). Additional units may be available upon user request.