

**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**TestVonics Part Number
ADTS-3350LR (Low Range)
ADTS-3350MR (Mid Range)
ADTS-3350ER (Ext. 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 increase viewing angle in direct sunlight. The backlit keypad is used to control the test set and can be operated using gloves or mittens. The ruggedized case features recessed hardware and wheels and a retractable handle for easy one person transport. The test set operates using a wide range of input power (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 software has a built-in Aircraft Select function which allows the operator to set the test set up for the 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 which provide 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.

TestVonics™ ADTS-3350 Air Data Test Sets

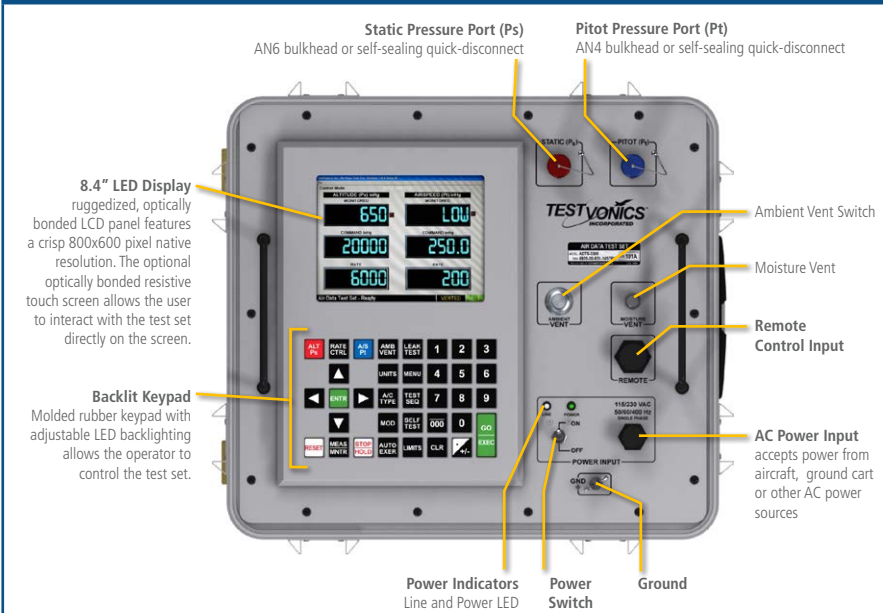
Altitude	Specifications
Altitude Ranges ¹	- 2,000 to 35,000 ft (LR - Low Range) - 2,000 to 65,000 ft (MR - Mid Range) - 10,000 to 99,000 ft (ER - Extended Range)
Altitude Accuracy	± 0.003 inHg or 0.01%, whichever is greater RVSM ➔
Altitude Slew Rate ²	0 to 50,000 ft/min
Altitude Rate Accuracy	± 10 ft/min or ±1% of setting whichever is greater
Units	feet, meters, inHg, mmHg, mbar, hPa, PSIA,

Airspeed	Specifications
Airspeed Ranges 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 Slew Rate ²	0 to 400 kts/min (LR and MR) 0 to 800 kts/min (ER)
Airspeed Rate Accuracy	± 2% of setting
MACH	Range (LR and MR): 0.000 to 5.000 Range (ER): 0.000 to 10.000 Resolution: 0.001 / Accuracy: 0.001 MACH (over full RVSM range)
Units	IAS/CAS, kts, Mach, inHg, mmHg, mbar, EPR, hPa, PSIA, kph, inHg/Qc

Leading Particulars	Specifications
Weight	82 lbs (varies based on accessories)
Dimensions	19.47 x 21.47 x 18.14 in (LxWxH)
Power	90-260 VAC, 45-440 Hz
Standard Interfaces	Remote, RS-232, USB

Standard Accessories	Optional Accessories
15 ft Power Cable	Remote Control Unit & Remote Cable ³
20 ft Pitot Hose Assembly	Extended Length Hose Assemblies
20 ft Static Hose Assembly	Pitot Static Adaptors or Adaptor Kits
20 ft Ground Strap	

ADTS-3350 Series Front Panel Features



ADTS-3350 Air Data Test Set Maneuverability



ADTS-3350 Remote Unit



¹ The ADTS-3350 Series is available in three (3) configurations: ADTS-3350LR, ADTS-3350MR, ADTS-3350ER. These models vary only in performance ranges. ² Lower rates may apply when operating with larger volumes. ³ ADTS-3350 Test sets may include the Remote Control Unit (RCU) when quoted. Some specifications can be tailored to meet certain customer specific requirements, contact TestVonics for more information.