

ADTS-3350ER Air Data Test Set

High Precision

RVSM CompliantRugged, compact durable design for
Flightline ApplicationsCalibrate, test and troubleshoot
Aircraft & InstrumentsADTS-3350 is common equipment
that can be used for a variety of
Commercial Aircraft**ADTS-3350ER**
NSN: 4920-01-662-3920

includes Standard Case Assembly

ADTS-3350ERM
includes Composite Case with Manifold

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. 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 Control Unit (RCU) Options

TestVonics offers two handheld Remote Control Units (RCU). The original RCU features a 3.5-inch display with a keypad. TestVonics next generation remote features a ruggedized 7.0-inch tablet style touchscreen display. Either RCU can control the test set remotely. A 25ft cable is included, extensions and custom lengths available.

Automated Calibration

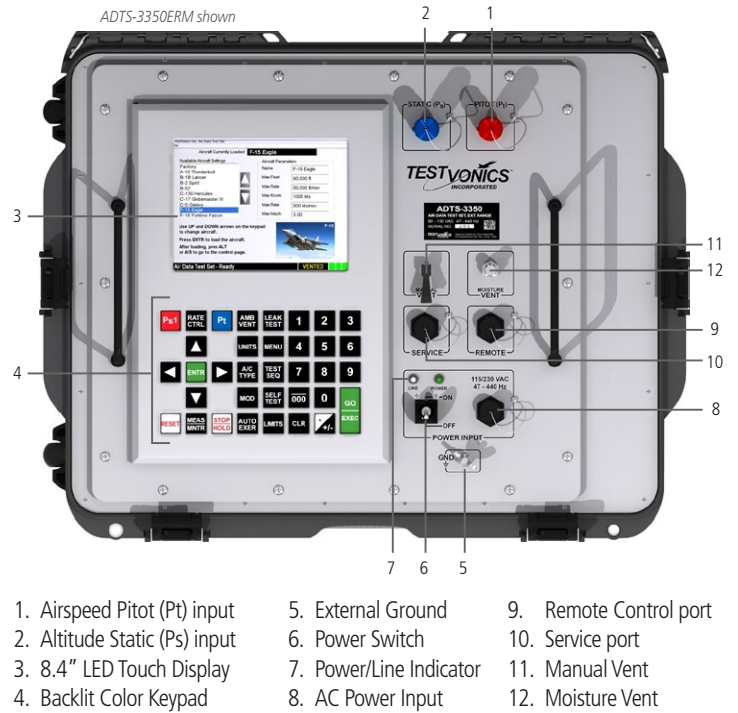
The ADTS-3350 can be calibrated automatically through software. Corrections are done through software requires no mechanical adjustments. The transducers are able to hold their accuracy for a period of one year.

TestVronics™ ADTS-3350ER Air Data Test Set

	Specifications
Altitude (Ps) Range^{1†}	-3,000 to 80,000 ft
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
Altitude Rate²	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 Units³	feet, meters, inHg, mmHg, mbar, hPa, PSIA
Airspeed (Pt) Range¹	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 Rate²	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 Units³	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 (optional)
Altitude (Static) Port	Standard: Male JIC 37° -6 AN Stainless Steel bulkhead Optional: Self-sealing Quick-disconnect, Red
Airspeed (Pitot) Port	Standard: Male JIC 37° -4 AN Stainless Steel bulkhead Optional: Self-sealing Quick-disconnect, Blue
Calibration Cycle	One (1) year
Power Requirements	90-265 VAC, 45 - 440 Hz, 1 Phase
Dimension / Weight	19.5 x 21.5 x 18.2 in (LxWxH) / 84 lbs ER 25.4 x 20.0 x 14.5 in (LxWxH) / 82 lbs ERM

RVSVM → COMPLIANT

ADTS-3350ER Front Panel Features

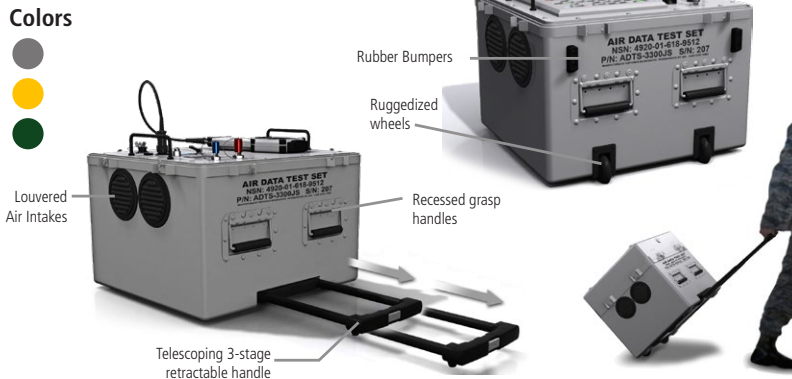


Handheld Remote Control Unit (RCU) Options

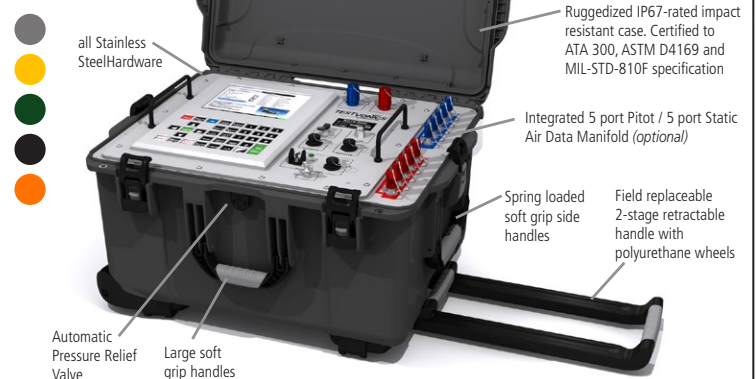


New! Composite ADTS Case with Air Data Manifold

Standard ADTS Aluminum Case



Colors



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