



TestVronics™ Flightline Digital Air Data Test Sets

ADTS-3300JS Air Data Test Set

**TTU-205
REPLACEMENT**

High Precision
RVSM Compliant

Recommended by USAF
**Air Combat Command
& Air Mobility Command**

Calibrate, test and troubleshoot
Aircraft & Instruments

TestVronics Part Number & NSN
**P/N: ADTS-3300JS
NSN: 4920-01-618-9512**



ADTS-3300JS Flightline Air Data Test Set

TestVronics™ ADTS-3300JS 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, especially for military end users. The test set is designed for testing a wide range of commercial and military aircraft, both rotary and fixed wing. The ADTS-3300JS accuracy complies with standards for RVSM and is designed to replace the TTU-205 test set.

Features

The ADTS-3300JS features a brilliant 8.4-inch transreflective, 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-3300JS 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-3300JS 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

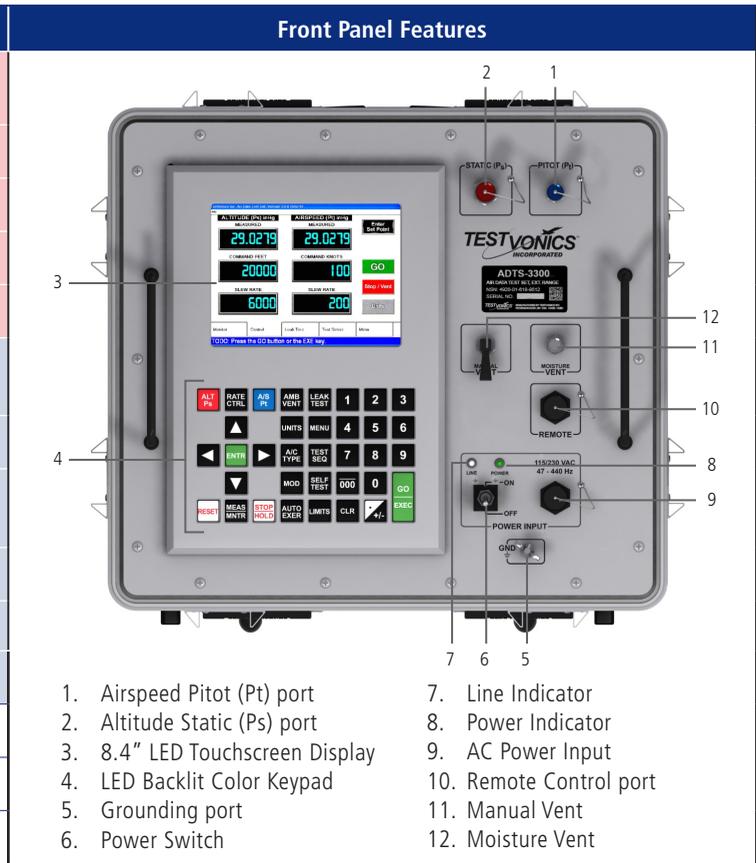
The ADTS-3300JS Remote Control Unit (RCU) features a full color touchscreen LED display and a backlit keypad. The remote features the same display format found on the main unit and can perform all functions of the test set remotely. A 25 or 50-foot remote cable is supplied with the remote.

Automated Calibration

The ADTS-3300JS 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-3300JS Air Data Test Set

	Specifications
Static (Ps) Altitude Control Range ¹	-2,000 to 80,000 ft
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 1,050 knots
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 LCD
Touchscreen	5-wire Resistive
Interfaces	External: (Remote) / Internal (RS-232, USB, RJ-45 option)
Altitude (Static) Port	Self-Sealing Quick disconnect, Red anodized
Airspeed (Pitot) Port	Self-Sealing Quick disconnect, Blue anodized
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



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

Case Features & Maneuverability



Remote Control Unit



Optional Support Equipment



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.