RAPTOR SCIENTIFIC®

ADTS Series

Flightline Air Data / Pitot Static Test Set

Static (Ps) Altitude Range: -3,000 to 85,000 ft

Pitot (Pt) Airspeed Range: 0 to 1,050 kts

BOEING F-15 SERD APPROVED

- Expansive 8.4-inch touchscreen display
- Intuitive Graphical User Interface
- Common test set for commercial and military aircraft pitot-static testing
- New rugged case assembly and 7.0-inch touchscreen Remote Control Unit

ADTS-3300JS Air Data Test Set

NSN: 4920-01-618-9512

The ADTS-3300JS is a portable, high precision, dual channel pitot static test set designed to calibrate, test and troubleshoot aircraft pitot-static systems and air data instrumentation. The ADTS can be used to test nearly all types of commercial and military aircraft (specifically approved by Boeing for F-15 aircraft) and meets requirements for RVSM testing.

An industry leading 8.4-inch front panel touchscreen display and backlit keypad is used for operation. The intuitive graphical user interface is designed to virtually eliminate the operator learning curve. Operating from 90-260VAC 45-440Hz power, the ADTS is ideally suited for all power sources. The rugged case features a field-replaceable retractable handle with smooth gliding wheels for transport and maneuverability.

Aircraft Pre-Select allows the operator to select pre-loaded aircraft profiles. Once selected, the profile limits the ranges and rates to the aircraft under test. Each aircraft profile can store a virtually unlimited amount of Test Sequences. These sequences can be programmed to perform semi-automated tests based on job guides or technical orders. This provides improved test consistency while decreasing testing times. Profiles and test sequences can be created and/or edited using the included Profile Builder software.

A 7.0-inch wired touchscreen Remote Control Unit is included standard and allows the operator to perform aircraft checks and control the test set directly from the cockpit.
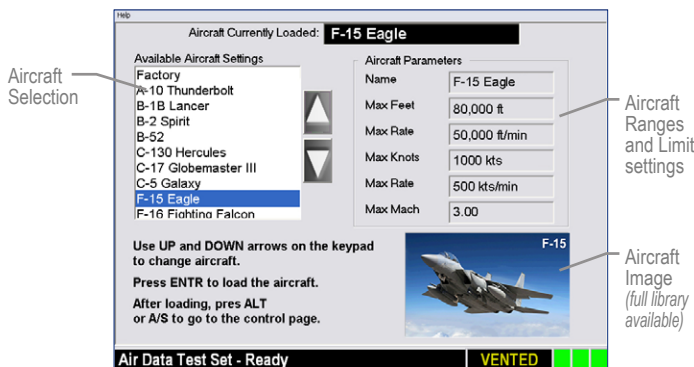
The ADTS can be calibrated automatically using the ADC Series Air Data Calibrators. Corrections are automated and require no mechanical adjustments. The transducers have been proven to hold their accuracy for a minimum period of one (1) year.
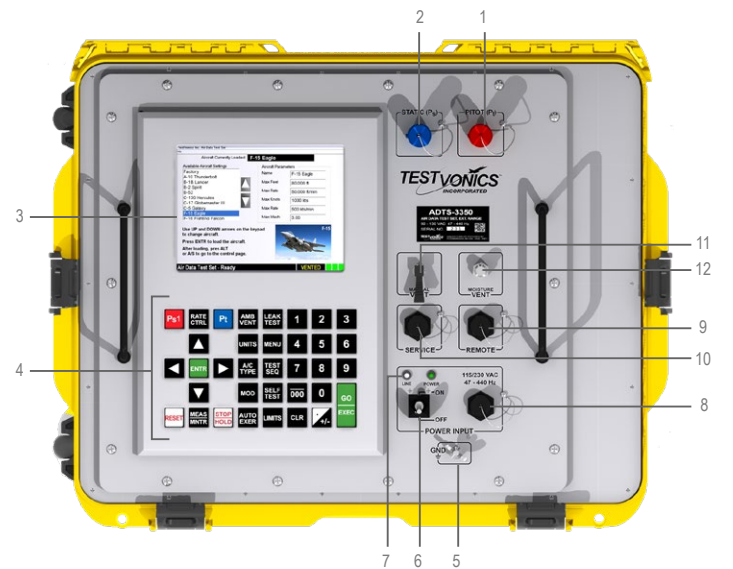

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ADTS-3300JS Specifications

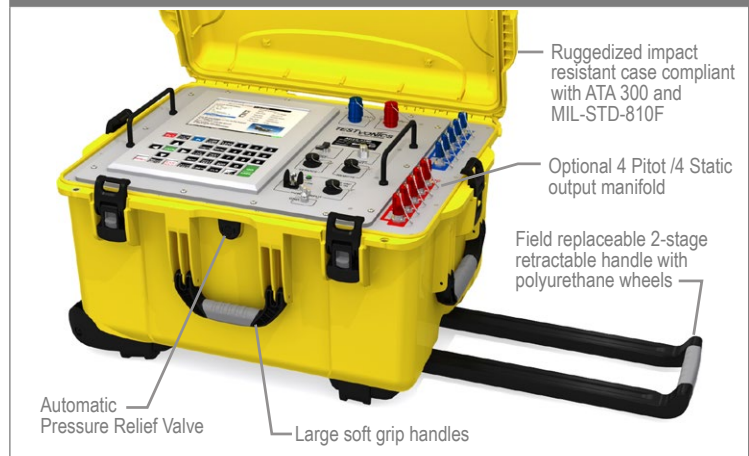|	
Altitude (Ps) Range	-3,000 to 85,000 ft
Static (Ps) Sensor	0.350 to 38.000 inHg
Altitude Accuracy [1]	Standard Accuracy [1] ±3 ft at 0 ft ±7 ft at 30,000 feet ±36 ft at 65,000 feet ±75 ft at 80,000 feet — High Accuracy [1] ±3 ft at sea level ±4 ft at 30,000 ft ±15 ft at 60,000 ft ±38 ft at 80,000 feet
Altitude Rate	0 to 50,000 ft/min Accuracy: ±10 ft/min or ±1% setting
Altitude Resolution	1 ft, 0.01 mbar, 0.0001 inHg (Ps), 0.01 mmHg
Altitude Units	feet, meters, inHg, mmHg, mbar, hPa, PSIA
Airspeed (Pt) Range	0 to 1,050 knots
Pitot (Pt) Sensor	0.350 to 110.000 inHg
Airspeed Accuracy [1]	Standard Accuracy [1] ±1.50 kts at 50 knots ±0.10 kts at 550 knots ±0.05 kts at 1,000 knots — High Accuracy [1] ±0.50 kts at 50 kts ±0.07 kts at 550 kts ±0.04 kts at 1,000 kts
Airspeed Rate	0 to 800 kts/min Accuracy: ±10 kts/min or ±1% setting
Airspeed Resolution	0.1 kt, 0.01 mbar, 0.0001 inHg (Pt), 0.01 mmHg
Airspeed Units	IAS/CAS, kts, Mach, inHg, mmHg, mbar, hPa, PSIA, kph
Display	8.4-inch color LED optically bonded touchscreen
Interfaces	External: Remote, Service / Internal: RS-232, USB
Altitude (Static) Port	Standard: Red Self Sealing Quick Coupling (Parker)
Airspeed (Pitot) Port	Standard: Blue Self Sealing Quick Coupling (Parker)
Calibration Cycle	One (1) year
Power	90-265 VAC, 45 - 440 Hz, 1 Phase
Dimensions / Weight	25.4 x 20.0 x 14.5 in / 62 x 51 x 37 cm 75 lbs (without manifold) 77 lbs (with manifold)

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
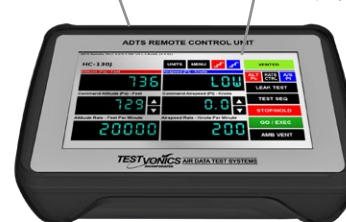10. Service port
11. Manual Vent
12. Moisture Vent

Case Features

- Ruggedized impact resistant case compliant with ATA 300 and MIL-STD-810F
- Optional 4 Pitot /4 Static output manifold
- Field replaceable 2-stage retractable handle with polyurethane wheels
- Automatic Pressure Relief Valve
- Large soft grip handles

Aircraft Pre-Select Feature

Aircraft Pre-Select mode allows the operator to select the aircraft under test. Profiles are pre-loaded at the factory or can be created by the end user. Test Sequences allow the ability to program an unlimited number of individual tests for each stored aircraft profile. These can easily be edited using our free Profile Builder software

Aircraft Selection

Available Aircraft Settings:
Factory
A-10 Thunderbolt
B-1B Lancer
B-2 Spirit
B-52
C-130 Hercules
C-17 Globemaster III
C-5 Galaxy
F-15 Eagle
F-16 Fighting Falcon

Aircraft Currently Loaded: **F-15 Eagle**

Aircraft Parameters:
Name	F-15 Eagle
Max Feet	80,000 ft
Max Rate	50,000 ft/min
Max Knots	1000 kts
Max Rate	500 kts/min
Max Mach	3.00

Aircraft Ranges and Limit settings

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

Aircraft Image *(full library available)*

ADTS Remote Control Unit (RCU)

Durable molded rubber boot   7.0-inch touchscreen display

25ft Cable included, Optional 25ft extension cable
Optional wireless model available in Q2 2023

(1) Altitude and Airspeed channels are capable of being calibrated to Standard Accuracy or High Accuracy, depending on the end users requirement. High Accuracy calibration requires comparison to a Primary Pressure Standard.