RAPTOR SCIENTIFIC

ADTS Series

Global Provider of Test & Measurement Solutions

Flightline Air Data / Pitot Static Test Set

Static (Ps) Altitude Range: -10,000 to 85,000 ft or

Static (Ps) Altitude Range: -3,000 to 100,000 ft

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

ADTS-2000 Air Data Test Set

The ADTS-2000 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 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.

RAPTOR SCIENTIFIC | Raptor Scientific - Avionics Systems (TestVonics) Peterborough, NH 03458

Manufactured in the USA
CAGE Code: 1A9E1

Phone: (603) 924-5922
E-mail: salesAS@raptor-scientific.com

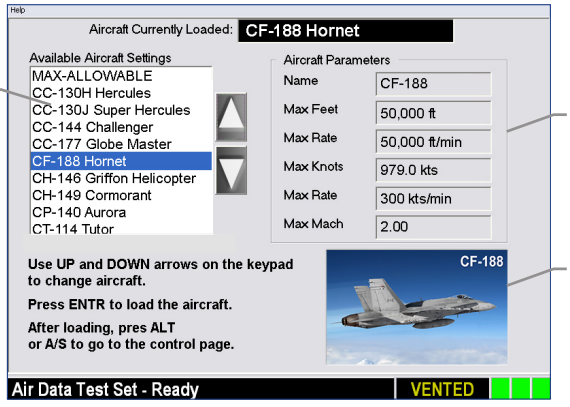
FIGHTER/TRAINER | CARGO/AIRLIFT | ROTARY/UAV/DRONE | JETS/AIRLINERS

ADTS-2000 Specifications

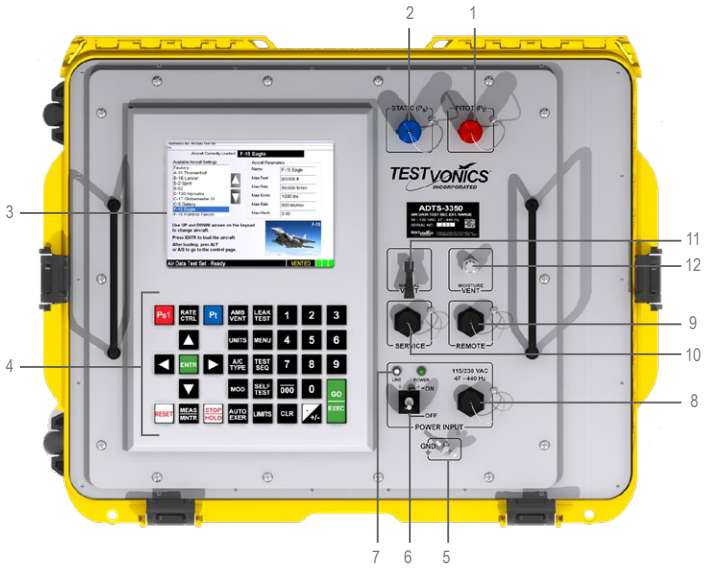
Altitude (Ps) Range	-3,000 to 100,000 ft (ER) -10,000 to 85,000 ft
Altitude Accuracy	±2 ft at 0 ft ±6 ft at 35,000 ft ±12 ft at 50,000 ft ±50 ft at 80,000 ft
Altitude Rate	0 to 50,000 ft/min Accuracy: ±10 ft/min or ±1% setting
Altitude Resolution	1 ft, 0.01 mbar, 0.0001 inHg (Ps), 0.01 mmHg
Altitude Units	feet, meters, inHg, mmHg, mbar, hPa, PSIA
Airspeed (Pt) Range	0 to 1,050 knots
Airspeed Accuracy	±1.50 kts at 20 knots ±0.50 kts at 50 knots ±0.25 kts at 100 knots ±0.10 kts above 300 knots
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: Male JIC 37° -6 AN Stainless Steel bulkhead
Airspeed (Pitot) Port	Standard: Male JIC 37° -4 AN Stainless Steel bulkhead
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 82 lbs (without manifold) 84 lbs (with manifold)

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

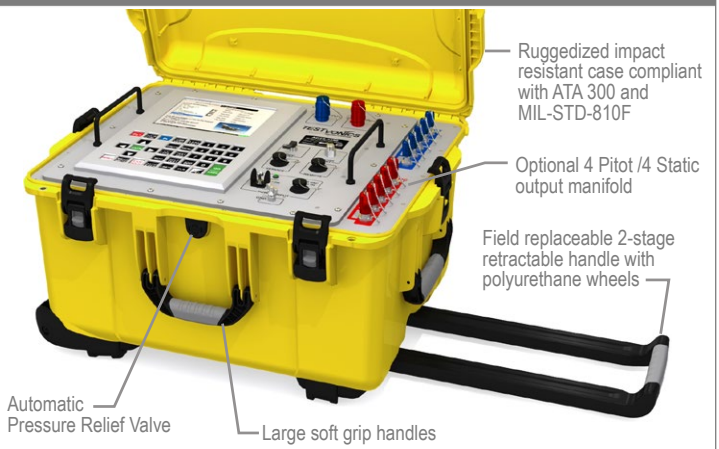


Front Panel Features



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



ADTS Remote Control Unit (RCU)

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

RAPTOR SCIENTIFIC

Raptor Scientific - Avionics Systems
(TestVonics) Peterborough, NH 03458

Manufactured in the USA
CAGE Code: 1A9E1

Phone: (603) 924-5922
Web: www.raptor-scientific.com