



TestVONICS™ Flightline Digital Air Data Test Sets

ADTS-2000 Air Data Test Set

**KTS-2000
REPLACEMENT**

Air Data Test Set replacement for all
Kollsman KTS-2000

Rugged and durable design for
Flightline Environments

Calibrate, test and troubleshoot
Aircraft & Instruments

High Precision and
RVSM Compliant

Model: **ADTS-2000**

*designed to replace the Kollsman KTS-2000
P/N: 18910920000, 18910920001, 18910920002



ADTS-2000 Flight Line Air Data Test Set

TestVONICS ADTS-2000 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. As common equipment, the ADTS can be used to test both commercial and military aircraft; fixed wing and rotary wing, fighter jets to cargo and passenger aircraft.

The ADTS-2000 replaces the Kollsman KTS-2000 part numbers 18910920000, 18910920001, 18910920002 or 1891046000 in addition to NSN: 4920-01-588-4428 or NSN: 4920-01-554-4549. The ADTS is designed with functional and reliability features highly suited to withstand the demanding conditions of the flight line.

Features

The ADTS features an expansive 8.4-inch LED backlit display with an optically bonded touchscreen. This helps to provide optimal visualization and viewing angles even in direct sunlight. The LED backlit keypad is used to control the test set and can be easily operated using gloves. Operating from 90-260VAC 45-440Hz power, the ADTS is ideally suited for varying hangar, ramp and flight-line power sources. The ruggedized and durable case features a field-replaceable retractable handle and durable wheels providing excellent single operator transport and maneuverability.

Simple and Intuitive Interface

The ADTS-2000 graphical user interface is intuitive and has been designed to eliminate the operator learning curve. The ADTS display is uncluttered and easy to read.

Protection and Safety Features

The ADTS is designed with both hardware and software safety features designed for maximum protection when testing. The ADTS features input pressure regulation, over-range, over-limit and over-pressurization protection. Micro-porous filters and screening prevent debris from entering the system. Equipped with pressure relief valves and a Negative Qc valve to protect the ADTS and the Unit Under Test (UUT) from damage. In the unlikely event that the test set loses power, the UUT is isolated - the front panel manual vent valve can safely vent both the test set and the UUT to ambient.

Aircraft Select Mode allows the operator to select pre-loaded Aircraft profiles. Once selected, the ADTS limits the ranges and rates to the specific aircraft under test. Each aircraft profile can store individual test sequences which can be selected and run by the operator. Test sequences provide improved test consistency. Aircraft profiles and test sequences can be created and/or edited using Profile Builder software.

Remote Control Unit (RCU) Options

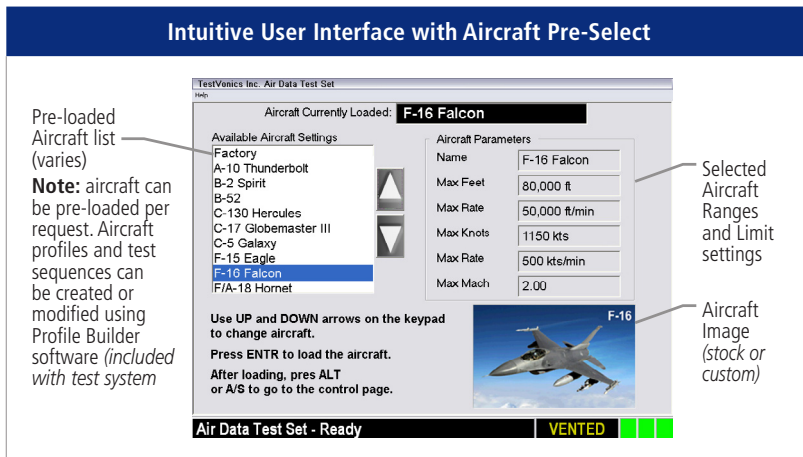
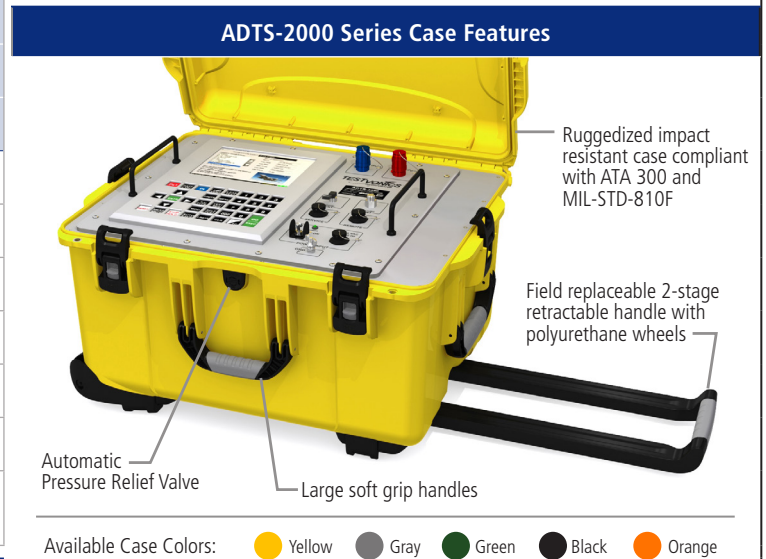
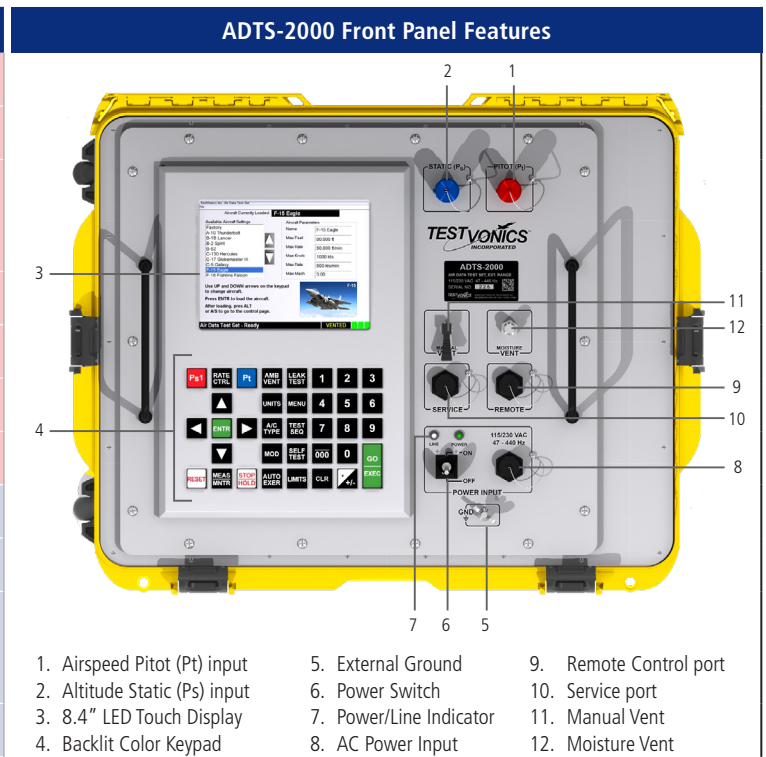
TestVONICS advanced handheld Remote Control Units (RCU) allows the operator to perform aircraft checks and control the test set directly from the cockpit. The RCU features a 7.0-inch touchscreen display with an intuitive interface which mimics the main units display. A 25ft remote cable is included and a 25ft extension cable is available.

Automated Calibration

The ADTS-2000 can be calibrated automatically using TestVONICS 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.

TestVronics™ ADTS-2000 Air Data Test Set

Specifications	
Altitude (Ps) Range ^{1†}	-10,000 to 80,000 ft
Static (Ps) Sensor	0.350 to 46,000 inHg
Altitude Accuracy	±3 ft @ 0 ft ±7 ft @ 30,000 feet ±27 ft @ 60,000 feet ±75 ft @ 80,000 feet RVSM → COMPLIANT
Altitude Rate ²	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 Units ³	feet, meters, inHg, mmHg, mbar, hPa, PSIA
Airspeed (Pt) Range ¹	0 to 1,000 knots
Pitot (Pt) Sensor	0.350 to 110,000 inHg
Airspeed Accuracy	±2.0 kts @ 20 knots ±0.8 kts @ 50 knots ±0.05kts @ 550 knots ±0.02 kts @ 1,000 knots
Airspeed Rate ²	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 Units ³	IAS/CAS, kts, Mach, inHg, mmHg, mbar, hPa, PSIA, kph
Display	8.4-inch LED backlit Touchscreen LCD
Interfaces	External: Remote, Service / Internal: RS-232, USB ⁴
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 Requirements	90-265 VAC, 45 - 440 Hz, 1 Phase
Dimension / Weight	25.4 x 20.0 x 14.5 in / 62.2 x 50.8 x 36.8 cm (L x W x H) 75 lbs



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, additional units may be available upon user request. 4) Internal USB ports can be removed or disabled at customers request.