



KTS-2000 DADTS Flightline Tester

KTS-2000

Digital Air Data Test Set (DADTS) - Flightline Tester

Features:

- **RVSM Accuracy**
- **All Solid State Design** - Ensures consistent, dependable results time after time
- **Durable** - Designed especially for extended use in harsh environments
- **Modular design for flexible operation**
- **Rugged, easy-to-use remote control provides single person operation from ground or cockpit**



General Information

As Kollsman's next generation to the highly successful TTU-205 flightline tester and Air Data Test Set, the KTS-2000 Digital Air Data Test Set (DADTS) offers a full range of test capabilities with today's latest solid state performance, reliability and value.

The KTS-2000 is a self-contained, automated, programmable air data test set ideal for high-tempo flightline operations. The system contains a KTS-1000 Digital Precision Pressure Controller Monitor (DPPCM), a durable pressure vacuum pump, and handheld remote control unit. Components are securely housed in a rugged, wheeled flightline case with a retractable handle for quick and easy one person transport.

High Accuracy Solid State Design

The KTS-2000 provides exceptional accuracy, sufficient for Reduced Vertical Separation Minimum (RVSM) requirements. The unit incorporates highly accurate solid-state pressure transducers and proprietary designs for delivering accurate measurement of air data parameters.

Durability

The KTS-2000 has been designed to meet MIL-PRF-28800F, Class 2 environmental requirements to provide for dependable operation in a variety of harsh climates.

Programmability

At the heart of the KTS-2000 is software designed to greatly improve ease of operation and reduce test time. This software allows the user to select between a variety of measurement units with all relevant parameters displayed in real time. Up to 10 profiles can be stored for testing a variety of aircraft.

Easy Operation

The KTS-2000 comes standard with a handheld remote control, which weighs just 13 oz. The 16-line by 24-character display allows the user a continuous, non-restricted view of all parameters under control on a single display. The 20-key membrane keypad provides tactile and auditory feedback. The KTS-2000 also features built-in leak test with real-time display of leak rate, auto venting protection, and a built-in timer.

Modular Design

In just minutes, the Digital Precision Pressure Controller Monitor (DPPCM) can be removed from the flightline case and operated using external vacuum/pressure sources. This flexibility provides the user both a flightline tester and a benchtop tester in one simple unit!





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PARAMETER	OPERATING RANGE	RESOLUTION	ACCURACY	STABILITY / REPEATABILITY	UNITS
Altitude	-10,000 to 80,000 feet (up to 99,900 with external pump)	1 foot	±3 feet or ±0.035% from -2,000 to 50,000 feet: ± 7 feet at 30,000 feet ±27 feet at 60,000 feet	±1 foot or ±0.017% from -2,000 to 50,000 feet; increases linearly to 0.1% at 99,900 feet	Feet InHg Meters hPa PSI
Rate of Climb	3 to 50,000 feet / min	1 foot / min	Instantaneous: ±10 feet / min or ± 5% Average: ± 1%	±10 feet / min or ± 5%	Same as Altitude
Airspeed	0 to 1,000 knots	0.1 knots	20 knots: ±2.0 knots 50 knots: ±0.8 knot 550 knots: ±0.05 knot 1000 knots: ±0.02 knot	20 knots: ±1.0 knot 50 knots: ±0.4 knot 550 knots: ±0.02 knot 1000 knots: ±0.01 knot	Knots, km/hr, Mach InHg: Qc and Pt hPa: Qc and Pt PSI: Qc and Pt
Mach Airspeed	0.002 to 5.0	0.001 Mach	Summation of Pt and Ps	Summation of Pt and Ps	Mach
Airspeed Rate	10 to 800 knots / min	0.1 knots / min			Same as Airspeed
Engine Pressure Ratio (EPR)	0.01 to 10	0.001	0.003	0.003	

Environmental Performance	MIL-PRF-28800F Class 2
Temperature Range –	
Operating	-20° C to +50° C
Storage	-55° C to +85° C
Sealing	Weatherproof in operating mode
Ps and Pt Connections	Front: Color-coded, keyed, quick connect Rear: MS-33656-6, MS-33656-4
Static Load Range	250 cubic inches max
Pitot Load Range	100 cubic inches max
Power Requirements	Select among the following options: 120 VAC, 60 Hz or 115 VAC, 400 Hz or 230 VAC, 50 Hz
Calibration Cycle	12 month interval
Dimensions	21" wide x 22" deep x 24" high
Weight	120V/400Hz Unit: 77 lbs 120V/60Hz Unit: 95 lbs 230V/50Hz Unit: 100 lbs
Warranty	1 year
Accessories	100 ft Remote Control Ext. Cable Self Test Hose Assembly 20 ft. Ps Hose, 20 ft. Pt Hose

Automatic Units conversion for inputs	Yes
Settable lower limit for all inputs	Yes
Negative Qc Availability	Yes
Ability to Run Scripts	Yes (with PC or Laptop)
Data Logging ability	Yes (with PC or Laptop)
Built-in Clock/Timer for Leak Test	Yes
Unit Under Test Protection	Auto Venting (in event of power loss)
Operational Modes	Dual Control Ps Control Only Pt Control Only Dual Monitor Only External Leak Test Internal Leak Test Reset/Vent Self Test Engine Pressure Ratio (EPR)
Interface Protocol	RS-232 and IEEE-488 (GPIB)
Control Method	Handheld Remote Control PC or Laptop Interface
Modulation	Yes (with PC or laptop) Frequency Modulation: Variable Amplitude Modulation: Variable

Ordering Information: KTS-2000

120VAC, 60Hz P/N 18910920000
120VAC, 400Hz P/N 18910920001
220VAC, 50Hz P/N 18910920002

Please specify choice of color for flightline case: Yellow (Standard)
Green (Optional)
Gray (Optional)

Continuing product refinement occasionally requires specifications to change without notice

