

TTU-205J Air Data Test Set

NSN: 4920-01-512-7743
P/N: 200317658-30



Gray



Commercial Yellow

Olive Drab Green

The TTU-205J Pressure Temperature Test Set is the current model of the TTU-205 Series. The USAF has standardized all TTU-205D, G, H and H models to the TTU-205J configuration. The TTU-205J is a rugged, self-contained flight line or hangar test system used to accurately simulate in flight pressure conditions by precisely controlling and measuring Altitude and Airspeed pressure to aircraft's pitot-static system. The TTU-205 can be used to test, certify, calibrate, and troubleshoot aircraft pitot-static systems or associated pneumatic flight control systems. The dual channel operation allows operators to perform dynamic, qualitative calibration and leak test for on ground simulation of altitude and airspeed pressures. The accuracy and operational capabilities meets and/or exceed test requirements for both military and commercial aircraft platforms.

- Automatic Calibration: TestVronics TTU-205J features reduced warm up times and eliminates pressure stability problems. No longer are operators required to power down the tester during calibration runs.
- RVSM Compliance: TTU-205J improves transducer calibrations allowing for full RVSM compliance. Automated Calibration Software provides for auto correction curve fits within 0.001 InHg.
- Reduced Support Costs: The TTU-205J reduces calibration touch labor by up to 90% using TestVronics Automated Enhanced Calibration Capability (ECC) software¹. ECC provides in-country test and calibration capability.
- Upgrade Kits are available to convert TTU-205D, F, G, and H models to the TTU-205J configuration and provide for RVSM testing capability. Contact TestVronics for more information on upgrades.

¹ A Cost Benefit Analysis has shown that TestVronics ECC software reduces touch labor hours between 75-90% for the USAF PMEL and USMC Maintenance Center organizations.

TTU-205J Pressure-Temperature Test Set Specifications and Accessories

Altitude	Specifications
Altitude Range	-1,500 to +80,000 ft
Altitude Accuracy	±0.003 inHg
Altitude Slew Rate	0 to 50,000 ft/min
Altitude Rate Accuracy	±10 ft/min or 2% of setting
Altitude Rate Resolution	1 ft/min
Total Temperature Simulation	30 to 129.9 ohms (optional)
Units	inHg, feet (ft)

Airspeed	Specifications
Airspeed Ranges	20 to 1,000 knots
Airspeed Accuracy	±2 knots from 20-50 knots ±1.5 knots from 50 - 200 knots ±1.0 knots from 200 - 300 knots ±0.5 knots above 300 knots
Airspeed Rate Range	0 to 800 knots/min
Airspeed Rate Accuracy	±2 knots/min or 2% of setting
Airspeed Resolution	± 0.1 knot
Mach Limit Setting	0 to 4.9 Mach
Units	knots (Vc), inHg, Mach

Leading Particulars	Specifications
Weight	112 lbs with accessories
Dimensions	24.5 x 19 x 14 inches
Power	115VAC 400Hz, Single Phase only
Static Load	5 to 250 cubic inches
Pitot Load	5 to 100 cubic inches
Calibration Cycle	6 months to 1 year
Color(s)	● ● ●
RVSM Compliant	Yes
Operating Temperature	-40°C to +55°C
Remote Control Compatible	Yes
ECC Compatible	Yes

Aircraft Pitot Static Adaptors and Kits

TestVronics offers Pitot-Static adaptors and adaptor kits for most of the worlds military and commercial aircraft. These products are unrivalled in quality & simplicity of design to connect the test set to the aircraft. TestVronics also offers custom designed Pitot Static Adaptor Hose Kits for most aircraft. Adaptors and kits vary by aircraft, please specify aircraft when ordering.



TTU-205 Hose and Replacement Accessories

- TTU-205 Hose Sets
- Leak Tune-Up Kits



• Custom Hose Kits with Pitot Static Adaptors are available, call for more information

TTU-205 DVD Training

This DVD Program outlines installation of the TTU-205J Retrofit Kit, initialization of the new TTU-205J using the ADC-2500 Air Data Calibrator (or Enhanced Calibration Capability software), installation of the Service Life Extension Kit (SLEK) and troubleshooting training (through easy to navigate videos) on how to quickly troubleshoot TTU-205 test sets. Technicians can learn the latest adjustment, diagnostic and measure techniques for heater circuit, servo gain and stability adjustments.

