

TTU-205J meets requirements for
RVSM Compliance

TestVronics ECC software provides
Automated Calibration

TTU-205J National Stock Number
4920-01-512-7743

TTU-205J Part Number (USAF)
200317658-30

*Available in Gray (shown), Olive
Drab Green and Commercial Yellow



RVSM →

TTU-205J Air Data Test Set

The TTU-205J Pressure Temperature Test Set is the current model in the TTU-205 Series. The TTU-205/J has standardized all TTU-205D, TTU-205/F, TTU-205/G and TTU-205/H models. The test set 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. The TTU-205J is an RVSM compliant test set.

Features

TestVronics offers both Factory New and Factory Overhauled test sets. Factory Overhauled units provide a big cost savings versus Factory new. For organizations who need to obtain Factory new test sets, TestVronics offers Factory new units with all new internal and external components and assemblies. Both come with the a one (1) year warranty. Additionally, TestVronics can provide any TTU-205 series model.

Benefits

TTU-205J improves transducer calibrations allowing for full RVSM compliance. Automated Calibration Software provides for auto correction curve fits within 0.001 inHg. TTU-205J reduces calibration touch labor by up to 90% using TestVronics Automated Enhanced Calibration Capability (ECC) software. ECC provides in-country test and calibration capability.

New Case for Enhanced Maneuverability

The TTU-205J is now available with an optional highly mobile case, featuring a retractable handle and recessed wheels. The unit can easily be transported over a variety of terrain and it can be easily moved by a single operator, eliminating a two-person lifting for transport.

Automated Calibration

The TTU-205J can be calibrated using existing TestVronics Enhanced Calibration Capability (ECC and EccADC embedded on the ADC-2500 Series Air Data Calibrators) software. This software has been in use for over 10 years by the USAF PMEL, and many other military and commercial organizations. TestVronics ADC-2500 Air Data Calibrator can be used to calibrate the TTU-205J automatically, increasing test consistency and allowing technicians to generate test reports with data and graphs when the calibration is complete.



Commercial Yellow



Olive Drab Green
with optional
Remote Control Unit

TestVonics TTU-205 Air Data Test Set

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

Altitude and Airspeed Slew Rates are load dependent. Slew rates and load test requirements may vary based on volume of the DUT and the performance of the pressure and vacuum source connected to the calibrator.

Aircraft Pitot Static Adaptors and Kits

TestVonics 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. TestVonics 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 Highly Maneuverability Case Option



Retractable handle and recessed wheels for easy transport

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.

