

TTU Series

Part Number 200317658-30

Ranges

Static (Ps) -1,500 to 80,000 feet

Pitot (Pt) 0 to 1,000 knots

Units of Measurement

feet, Knots, inHg

Power

Operation: 115 VAC 400Hz, 1 phase

Global Provider of Test & Measurement Solutions



- Ruggedized and built to meet the harshest environments
- Reliable, proven design with 3,000+ units fielded, and
- TTU-205J model provides automated calibration and improved reliability

TTU-205J Flight Control System Test Set

NSN: 4920-01-512-7743

The TTU-205J Flight Control System Test Set is the current model of the rugged flightline series. The test set can be used to accurately simulate aircraft pitot-static in-flight conditions by precisely controlling and measuring Altitude and Airspeed pressures. The TTU-205 can be used to test, certify, calibrate, and troubleshoot aircraft pitot-static systems or associated pneumatic flight control systems. The accuracy and operational capabilities meets and/or exceed test requirements for both commercial and military aircraft platforms.

The TTU-205J model features improved reliability enhancements and transducer calibration without soldering while allowing for RVSM compliance. These features allow for fully automated calibration capabilities using the ADC-2500V3 Series Air Data Calibrators, touch labor can be reduced by up to 90%.

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

TTU-205 Repair Service and Support

We continue to offer complete repair, overhaul and upgrade services for all TTU-205 Pressure-Temperature test set models. From spare parts to extensive repairs, we can support and extend the life of these assets. We offer a variety of support equipment, parts and services for all flightline air data test equipment.



TTU-205J Specifications	
Altitude (Ps) Range	-1,500 to 80,000 ft
Altitude Accuracy	± 10 feet or ± 0.1% from 1,500 to 60,000 feet, increasing linearly to ±130 feet at 80,000 feet RVSM →
Altitude Rate	0 to 50,000 ft/min Accuracy: ±10 ft/min or ±2% setting
Altitude Resolution	1 ft, 0.0001 inHg (Ps)
Altitude Units	feet, inHg
Airspeed (Pt) Range	20 to 1,000 knots
Airspeed Accuracy	±2.0 knots from 20 - 50 knots ±1.5 knots from 50 - 200 knots ±1.0 knot from 200 - 300 knots ±0.5 knot above 300 knots
Airspeed Rate	0 to 800 kts/min Accuracy: ±10 kts/min or ±2% setting
Airspeed Resolution	0.1 kt, 0.0001 inHg (Pt)
Airspeed Units	knots (Vc), inHg, MACH
Case Colors	● Yellow ● Olive Drab ● Gray (default)
Display	Two seven-segment electroluminescent displays
Interfaces	Remote (RS-422)
Altitude (Static) Port	Self-Sealing Quick disconnect, Red anodized
Airspeed (Pitot) Port	Self-Sealing Quick disconnect, Blue anodized
Calibration Cycle	One (1) year
MACH Range	0.0 to 4.9 MACH
Power	115 VAC 400Hz, Single Phase ONLY
Dimensions / Weight	24.5 x 19 x 14 in (LxWxH) / 112 lbs (with accessories)

Front Panel Features

- Altitude Static (Ps) port
- Airspeed Pitot (Pt) port
- Test Fixture Vacuum (optional)
- Display and Command Module
- AC Power Input
- AC Power Switch
- Grounding Lug
- Mode Select switch
- Moisture Vent
- Pump On/Off Switch
- Remote Interface (RS-422)
- Frequency setting Switch
- Modulation setting Switch
- Mack Limit setting switch
- Elapsed Time Indicator

New High Mobility Case Features

Three-stage retractable handle with recessed wheels for single operator transport.

Aircraft Pre-Select Feature

The TTU-205J Retrofit Kit can be used to upgrade any TTU-205/D/F/G or H test set to the TTU-205J configuration. Installation takes about 30 minutes and once completed, the test set becomes a TTU-205J. Each kit includes one each of the following:

- A2 ECC Printed Circuit Board NSN: 5998-01-509-8040
- A1 I/O Printed Circuit Board NSN: 5998-01-515-9821
- Decal & Marking Ki NSN: 4920-01-513-5680

Optional Support Equipment

Line Switching Unit

Pitot Static Kits and Adaptors