

GE Sensing

Features

- Low cost RVSM compliant tester
- Integral electric pumps
- Programmable safety limits
- Leak test mode
- Menu driven operation interface
- 12 month recalibration period

The ADTS 530 is a compact and portable air data test set ideal for flightline use. This rugged solid state instrument features vibrating element transducer technology, providing high performance with a 12 month recalibration interval.

Housed in a fiberglass case, the ADTS 530 contains all essential elements required of a rugged pitot static tester: high accuracy sensors, microprocessor driven electronics, clear LCD readout, operator driven valving for parameter setting and an efficient electric pressure/vacuum pump system.

The simplified LCD readout provides both parameter displays and menu driven operator instructions for setting up protective limits. Altitudes/airspeeds are simply generated by hand-controlled fine adjustment valves, with internal electric pumps capable of altitudes <55,000 ft (<16,764 m), rates of climb <6,000ft/min (<1828 m/min), airspeeds <650 knots, for a wide range of aircraft types.

The ADTS 530 is AC powered, operated from most single-phase national supplies and aircraft power. It enables accurate, efficient testing without compromising rigorous flightline safety standards.

ADTS 530

Druck Air Data Test Set

ADTS 530 is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



ADTS 530 Specifications

General

Scaling Factors

- Altitude: ft, meters
- Airspeed: knots, km/Hr
- Mach Rate of Climb: ft/min, m/min
- Others: mbar, inHg, psig

Leak Rate Testing

Displayed in ft/min/min and kts/min and km/hr/min

Overpressure

- Negligible calibration change with up to 2 x full scale (FS) overpressure applied.
- Compliant with 97/23/EC (category SEP).

Temperature Range

- Calibrated: 32°F to 122°F (0°C to 50°C)
- Operational: 32°F to 122°F (0°C to 50°C)
- Storage: -4°F to 158°F (-20°C to 70°C)

Conformity

- EN61010 for electrical and mechanical safety
- EMC Specification EN 61326-1. CE marked
- 89/336/EEC as amended by 92/31/EEC and 93/68/EEC

Power Supply

- 115 V to 230 VAC
- 47 to 400 Hz

Physical

- Case Dimensions (w x h x d) 9.7 in x 15.4 in x 14.9 in (248 mm x 391 mm x 378 mm)
- Weight 35 lb (16 kg) nominal

Case

Rugged fiberglass with removable lid and storage for accessories.

Pneumatic Connections

Ps and Pt-AN4 Male



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920-299B

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Pneumatic Supplies

Internal pressure/vacuum pump to 55,000 ft/650 kts (16764 m/650 kts @ 6000 ft/min (1828.8 m/min)

Parameter	Operating Range	Resolution	Accuracy	Repeatability
Altitude	-15,000 ft to 55,000 ft	1 ft (0.30 m)	±3 ft (±0.91 m) @ sea level	±2 ft (±0.60 m)
	(-4572 m to 16764 m)		±7 ft (±2.13 m) @ 29,000 ft (8840 m)	±2 ft (±0.60 m)
			±19 ft (±5.79 m) @ 50,000 ft (15,240 m)	±9 ft (±2.74 m)
Static Sensor	1.30 to 18.70 psia (90 to 1290 mbar)	0.00014 psi (0.01 mbar)	±0.0014 psi (±0.1 mbar)	0.00072 psi (0.05 mbar)
	(2.7 to 38 inHg)	0.001 inHg	±0.003 inHg	0.0015 inHg
Airspeed	20 to 650 kts	0.1 kts	±1.0 kts @ 50 ±0.3 kts @ 200 ±0.1 kts @ 500	±0.5 kts ±0.15 kts ±0.1 kts
Pitot Sensor	1.30 psi to 37.70 psi (90 mbar to 2600 mbar)	±0.00014 psi (±0.01 mbar)	±0.0029 psi (±0.2 mbar)	±0.00072 psi rising to 0.0021 psi (±0.05 mbar rising to 0.15 mbar)
	(2.7 to 77 inHg)	0.001 inHg	±0.007 inHg	±0.015 inHg rising to ±0.005 inHg
Timed Rate of Climb	100 to 20000 ft/min (30.48 to 6096 m/min)	1 ft/min (0.30 m/min)	±1% of value	±0.5% of value
Mach	0.1 to 4.67	0.001	0.005 @ 0.1 falling to 0.001 @ 1.0	±0.001
Engine Pressure Ratio (E.P.R)	1 to 5	0.001	RSS of Ps and Pt sensor accuracy	±1 count

Accessories

Pitot static hoses 25 ft (8 m) long with AN4 mating fitting to one end. Universal probe adaptor for Ps and Pt, AC power cable. Operators manual and calibration certificate also supplied as standard.

Calibration Standards

Instruments manufactured by GE are calibrated against precision equipment traceable to International Standards.

Ordering Information

Please state the following:
1) Model type ADTS 530