23-H10 ITEM 1

MALZEME ADI : AIR DATA TEST SYSTEM

ADTS 405 MkII

Druck Air Data Test System

Design history with TERPS innovation

Druck is the foremost supplier of air data test systems, with over 25 years experience in the design and manufacture of advanced pressure measuring instruments and sensors.

The ADTS 405 is a series of reliable, high accuracy, air data test systems. The rugged, compact design has evolved as a result of Druck's continuous research and development, customer feedback and experience gained from manufacturing thousands of automatic pressure controllers. This has enabled performance, maintainability, and operational simplicity to be optimized.

Features

- High accuracy TERPS sensor suitable for testing RVSM aircraft
- Flightline and rack mount versions
- Civil and military specifications
- Integral or remote pressure/vacuum supplies
- Fully programmable for aircraft type
- Protection for aircraft instruments
- Fully CE and ROHS II compliant
- 2 year warranty as standard

Druck
a Baker Hughes business

ADTS 405 MkII specifications

Parameter	Operating range	Resolution	Accuracy
Altitude	-914 to 24,384 m[2] (-3,000 to 80,000 ft)	0.3 m (1 ft)	0.9 m at sea level[1] (3 ft at sea level) 2.1 m at 9144 m[1] (7 ft at 30,000 ft) 8.8 m at 18,288 m[1] (29 ft at 60,000 ft)
Static sensor	35[2] to 1355 mbar absolute (1 to 40 inHg)	0.01 mbar[1] (0.0003 inHg)	±0.1 mbar (±0.003 inHg)
Airspeed	10 to 850 knots[4] or 10 to 1,000 knots	0.1 kts 0.1 kts	±0.5 kts at 50 kts ±0.07 kts at 550 kts ±0.05 kts at 1,000 kts
Pitot sensor	35[2] to 2700 mbar absolute (1 to 80 inHg) 35[2] to 3500 mbar absolute (1 to 103 inHg)	0.01 mbar (0.0003 inHg) 0.01 mbar (0.0003 inHg)	±0.2 mbar ±0.28 mbar
Rate of climb	0 to 6000 ft/min[3]	1 ft/min	±1% of value
Mach	0.6 to 10.000[4]	0.001	Better than 0.005
Engine Pressure Ratio (EPR)	0.1 to 10	0.001	Better than 0.005

1. Accuracy includes non-linearity, hysteresis and repeatability over the full operating temperature range, 12 months drift and calibration standard uncertainty.
2. 32,004 m (105,000 ft) available (control with suitable vacuum pump).
3. 30,480 m (100,000 ft/min) rates selectable - limit protected for safety - volume dependent
4. Limits settable to prevent excessive mach. (Civil limit Mach 5).

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