TestVonics™ Air Data Transfer Standards

ADC-1000 Air Data Monitor

High Precision
Transfer Standard

Compact design with external 15-inch
Touchscreen Display

Calibrate, test and troubleshoot with
Automated Calibrations

ADC-1000 Air Data Monitor

The ADC-1000 Air Data Monitor is a high accuracy air data measurement system. The monitor is capable of measuring Altitude and Airspeed pressures to the highest degree of accuracy. The measurement range of the test system meets or exceeds most requirements for commercial and military test applications. It can cover the full range of nearly all manufacturer's Air Data Calibrators.

Features

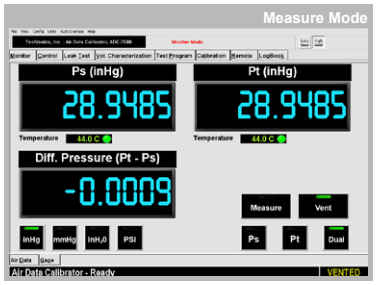
The ADC-1000 features a rear panel VGA connection to connect the included 15.0" external touchscreen LCD monitor. An on-screen keyboard appears automatically when operator input is required. A USB keyboard and mouse is included with the monitor for auxiliary data input. The monitor uses two (2) digi-quartz transducers, which provide unmatched performance and long term stability. The monitor is capable of holding it's accuracy for a period of one (1) year.

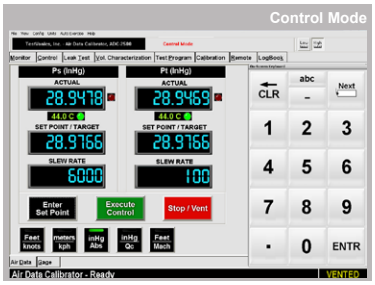
Simple and Intuitive Interface

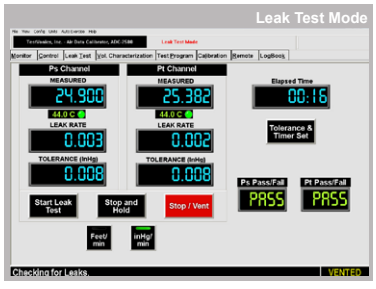
The ADC-1000 provides a familiar and intuitive graphical user interface for any operator. The calibrator measures and record readings and displays the data readings with graphs. This data is stored on the system and can be printed for calibration reports. In addition, the monitor can be operated remotely through the RS-232 (serial) port located on the rear panel. The systems operating platform provides for future expandability through software upgrades for future testing applications.

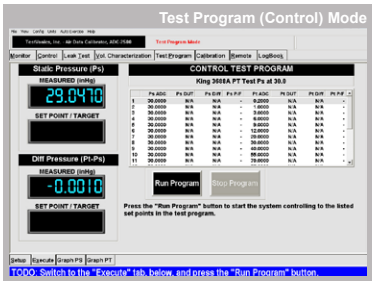
Protection and Safety Features

The ADC-1000 is designed with both hardware and software safety features designed for maximum protection when testing. The calibrator features input pressure regulation, over-range, over-limit and over-pressurization protection. Micro-porous filters and screening prevent debris from entering the system. The monitor is equipped with pressure relief valves to protect the pneumatic system components and the unit under test (UUT) from damage. In the event that the calibrator loses power, the dual front panel manual vents can be used to safely vent both the test set and the UUT to ambient. The Test Program function allows the operator to create virtually unlimited test number of test routines for automated testing. These test routines save time and provide improved test consistency.









TestVonics™ ADC-1000 Air Data Monitor

	Specification	ADC-1000 Features
Static (Ps) Altitude Measure Range	0.001 to 34.000 inHg 0.025 to 863.600 mmHg	
Altitude Accuracy	0.01% or ± 0.003 inHg (± 0.0025 RVSM)	
Altitude Resolution	1 ft / 0.01 mbar / 0.0001 inHg (Ps) / 0.01 mmHg	
Altitude Units [3]	feet (ft) / meters (m) / millibar (mBar) inches mercury (inHg) / millimeters mercury (mmHg) inches water (inH_20) / PSIA	
Pitot (Pt) Airspeed Measure Range [1]	0.001 to 110.000 inHg 0.025 to 2794.000 mmHg	
Airspeed Accuracy	0.01% or ± 0.004 inHg ± 0.100 mmHg	
Altitude Resolution	0.1 kt / 0.01 mbar / 0.0001 inHg (Pt) / 0.01 mmHg	
Airspeed Units [3]	knots (Vc) / Qc (Differential) / inches mercury (inHg) millimeters of mercury (mmHg) / millibar (mBar) PSID / PSIA / Total Pressure (Pt) / inches water (inH_20) kilometers (km) / MACH	
Display	15.0" Touchscreen Monitor	
Display (optional)	15 or 17.0" Touchscreen Monitor	
Interfaces	RS-232 / USB (3) / Ethernet	
Operating Medium	Clean Dry Air or Nitrogen	
Altitude (Static) Port	37°AN6 (rear Panel)	
Airspeed (Pitot) Port	37°AN4 (rear Panel)	
Calibration Cycle	One (1) year	
Power Requirements	90-264 VAC, 45 - 440 Hz, 1 PH	
Dimension / Weight	19.0 x 5.0 x 16.0 in (rackmount) / 14 lbs	

1) Standard ranges listed. Ranges can be configured to comply with customer specific requirements. 2) The 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. 3) Standard units of measurement listed (at time of print). Additional units may be available upon user request. 5) The 115 VAC part numbers shown, 230VAC are available, use -230.

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