

ADC-2550 Air Data Calibrator

Perform enhanced
**Calibrations on a
Variety of Equipment**

Brilliant, High Resolution LED Backlit
10.4" LCD Touchscreen

Easy to use, intuitive and upgradable
Graphical User Interface

TestVonics Part Number
NSN: 6695-01-590-1161
P/N: ADC-2550



ADC-2550 Air Data Calibrator

TestVonics ADC-2550 Air Data Calibrator is a high accuracy air data management system. The calibrator is capable of controlling and measuring Altitude and Airspeed pressures to the highest degree of accuracy. The control and measurement range of the test system meets or exceeds most requirements for commercial and military test applications. In addition, accuracy of ADC-2550 complies with requirements for RVSM.

Features

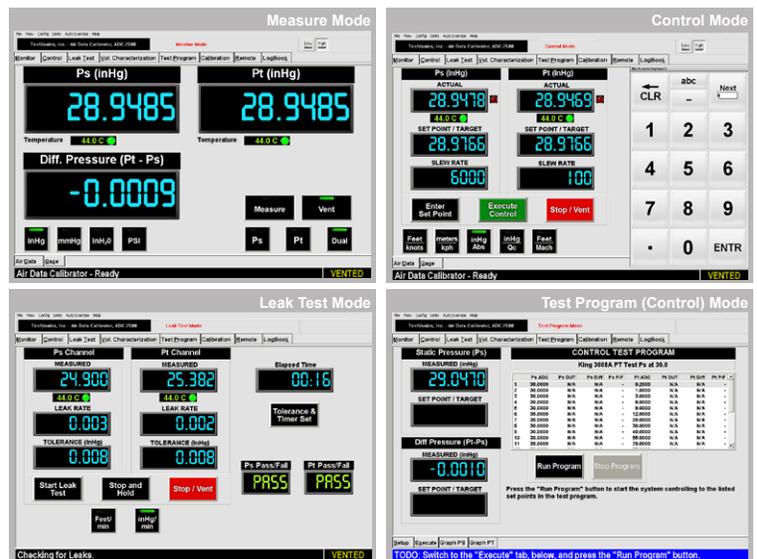
The ADC-2550 features a brilliant 10.4-inch LED backlit LCD display with a 1024x768 resolution. A 5-wire resistive touchscreen allows the calibrator to be controlled directly from the front panel. An on-screen keyboard appears automatically when operator input is needed. Additionally a USB keyboard and mouse is included with the calibrator for redundant data input if desired. The calibrator uses 2 digiquartz transducers which provide unmatched performance. Corrections are done through software requiring no mechanical adjustments and are capable of holding accuracy for a period of one (1) year.

Simple and Intuitive Interface

The ADC-2550 software 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 calibrator and can be printed for calibration reports. In addition, the calibrator can be operated remotely through the RS-232 (serial) or IEEE-488 (GPIB) located on the rear panel. The ADC-2550 operating system platform provides for future expandability through software upgrades for additional testing applications.

Protection and Safety Features

The ADC-2250 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 calibrator 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 front panel manual vent 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 numbers of test routines for automated testing. These test routines save time and provide improved test consistency.



TestVonics ADC-2550 Air Data Calibrator

Altitude	Specifications
Altitude Range	-10,000 to 99,000 ft (109,985 ft using Ext. Range)
Altitude Accuracy	± 0.0020 inHg ± 0.0015 inHg (over ranges for RVSM)
Altitude Slew Rate	0 to 50,000 ft/min ¹
Altitude Rate Accuracy	± 10 ft/min or ± 1% of setting whichever is greater
Units	inHg, feet, meters, millibar, inH ₂ O

Airspeed	Specifications
Airspeed Range	0 to 1050 knots
Airspeed Accuracy	± 0.004 inHg
Airspeed Slew Rate	0 to 800 kt/min
Airspeed Rate Accuracy	± 2% of setting
Mach Range	0.002 to 5.0 Mach (up to 10.0)
Units	knots, Qc, inHg, Mach, Total Pressure, millibar, kilometers, PSIA, inH ₂ O

Leading Particulars	Specifications
Weight	37 lbs
Dimensions	19.0 x 10.5 x 20 in (19 in. rackmount)
Power	90-264 VAC, 47-63 Hz, Single Phase 90-264 VAC, 45-440 Hz, Single Phase (option)
Standard Interfaces	RS-232, IEEE-488, USB (x2), Ethernet

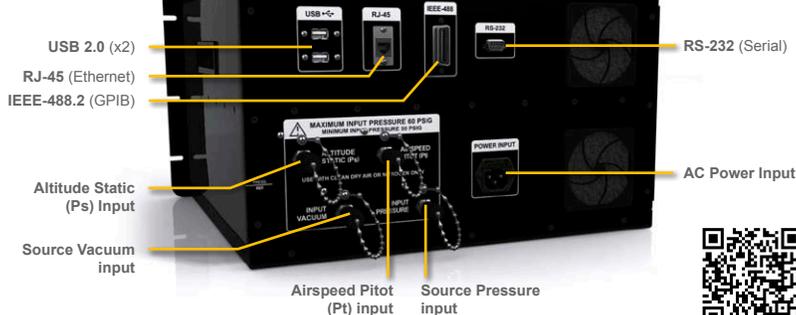
ADC-2550 Calibrator Features

Front Panel

10.4" LCD Display
brilliant display panel features a crisp 1024x768 resolution. The resistive touch screen allows user to control the calibrator from the front panel without the need for a keyboard or mouse.



Rear Panel



¹The ADC-2550 slew rate is load dependent. Slew rates and load test requirements will vary based on the volume of the DUT. The product can be modified to fit customers specifications or requirements.

Calibrate a variety of Air Data Equipment

The ADC-2550 is designed to support calibration of the full range of organizational (O-Level) air data test sets, pitot static test sets and other air data equipment used by the United States Air Force, Army, Navy and Marines.

The ADC-2550 is available as a fully integrated test station. The test station includes the ADC-2550, a custom rack enclosure with an accessory/hose storage drawer, vacuum source, and a universal power supply. A custom interface panel features front panel Pitot and Static inputs and other interfaces. Casters allow for full mobility in the lab.



ADC-2500 Series Support Equipment

TestVonics high performance oil-free vacuum, pressure and universal power sources provide easy system integration that are suitable for a wide variety of applications.

Pressure Source

P/N: ADC-2500-PRES-115



Vacuum Source

P/N: ADC-2500-VAC-115

Universal Power Source

P/N: TVCS-PS-1350

