

Plug and Play replacement for the
Honeywell ADT-222B

Brilliant, High Resolution LED Backlit
10.4" LCD Touchscreen

Easy to use, intuitive and upgradable
Graphical User Interface

TestVonics Part Number
P/N: ADC-2522

replaces ADT-222B Models:
P/N: 4047505-422 421
NSN: 4920-01-105-0016



ADC-2522 Air Data Calibrator

TestVonics™ ADC-2522 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. The ADC-2522 features a plug-and-play Honeywell Sperry ADT-222B compatible IEEE-488 interface and protocol.

Features

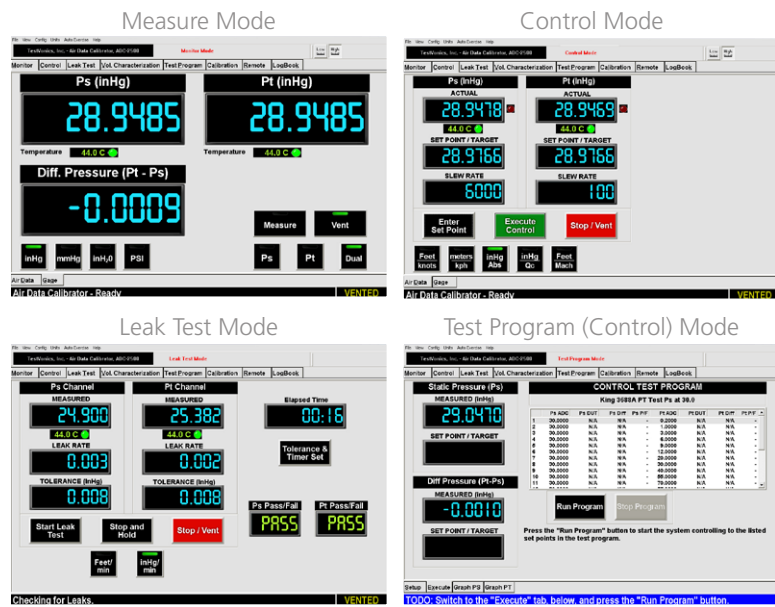
The ADC-2522 features a brilliant 10.4-inch LED backlit LCD display. A resistive touchscreen allows the calibrator to be controlled directly from the front panel. An on-screen keyboard appears when operator input is needed. Additionally a USB keyboard and mouse is included as standard equipment with the calibrator. 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-2522 software provides a familiar and intuitive graphical user interface. Modes of Operation are easily selected through tabs located along the top of the screen. The operator can easily switch between modes while testing without affecting operation. The calibrator measures and records readings, while displaying data as a table or graphically. All information is stored directly on the calibrator and reports can be printed. The ADC-2522 can be operated remotely using the RS-232 (serial) port on the rear panel. The operating platform allows the system to be upgraded for future test applications through software upgrades, standalone installer packages or customized software applications.

Protection and Safety Features

The ADC-2522 is designed with hardware and software features for maximum protection to the operator and unit under test (UUT). The calibrator features input pressure regulation, over-range, over-limit and over-pressurization protection. Micro-porous filters and screening prevent debris from contaminating the system. The calibrator is equipped with pressure relief valves to protect the pneumatic system components and the UUT from damage. In the event that the calibrator loses power, the 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 number of test routines for automated testing. These test routines save time and provide improved test consistency.




TestVonics™ ADC-2522 Air Data Calibrator

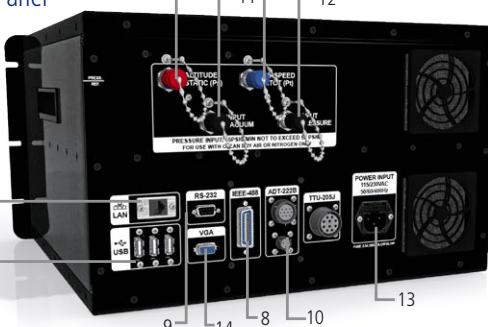
ADC-2522 Specifications	
Static (Ps) Altitude Control Range ¹	-2,000 to 99,000 feet 0.300 to 110.000 inHg
Altitude Accuracy	0.01% or ± 0.003 inHg over full scale
Altitude Rate ²	0 to 50,000 ft/min
Altitude Rate Accuracy	± 10 ft/min or ± 1% of setting, whichever is greater
Altitude Resolution	1 ft / 0.01 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 ₂ O) / PSIA
Pitot (Pt) Airspeed Control Range ¹	0 to 1,050 Knots 0.3000 to 110.000 inHg 0 to 73.545 inHg (Qc)
Airspeed Accuracy	0.01% ± 0.008 inHg over full scale
Airspeed Rate ²	0 to 800 kt/mi
Airspeed Rate Accuracy	1% of setting
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 ₂ O) / kilometers (km) / MACH
Control Stability	0.001% over full scale (Absolute or Differential)
Display	10.4-inch LED backlit Touchscreen LCD
Touchscreen Display	Yes
Interfaces	RS-232 / USB (x3) / Ethernet / IEEE-488.2 / VGA Output Honeywell ADT-222B
EccADC Software	No
Operating Medium	Clean Dry Air or Nitrogen (<i>non-density sensitive</i>)
Altitude (Static) Port	37°AN6 (Front Panel)
Airspeed (Pitot) Port	37°AN4 (Front Panel)
Calibration Cycle	One (1) year
Power Requirements	90-264 VAC, 45 - 440 Hz, 1 PH
Dimension / Weight	19 x 10.5 x 20 in (19-inch rackmount) / 36 lbs (17.24 kg)

ADC-2522 Air Data Calibrator Features

Front Panel



Rear Panel



- 10.4" LED Touchscreen LCD
- Manual Vent switch
- Power Switch
- Airspeed Pitot (Pt) Port
- Altitude Static (Ps) Port
- USB 2.0 Ports (x2)
- RJ-45 Ethernet port
- IEEE-488 port
- RS-232 connector
- ADT-222B Interface
- Input Vacuum
- Input Pressure
- AC Power Input
- VGA Port (optional)

Optional ADC-2522 Series Support Equipment

TestVonics high performance pressure and oil-free vacuum sources provide easy system integration that are suitable for the ADC-2522 Series and a wide variety of other applications.

Pressure Source

P/N: ADC-2522-PRES-115 ⁵



Vacuum Source

P/N: ADC-2522-VAC-115 ⁵

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.