



ADC-2550V3 Air Data Calibrator Comparison

	ADC-2550V3	Honeywell ADT-222A / ADT-222B
		
Specification		
Altitude Control Range	-10,000 to 109,985 ft	-2,000 to 90,000 ft
Static Sensor Range	0.205 to 42.4375 inHg (Measure)	0.320 to 40.000 inHg (Measure)
Altitude Resolution	1 ft, 0.3 m, 0.01 mbar, 0.0001 inHg	1 ft, 0.1 mbar, 0.001 inHg
Altitude Rate ¹	0 to 50,000 ft/min / 0 to 15,240 m/min	0 to 40,000 ft/min / 0 to 12,190 m/min
Altitude Rate Accuracy	± 1% of command rate	± 1% of command rate
Altitude Accuracy	±0.003 inHg or 0.008% FS	± 0.003 inHg FS
Altitude Units	feet, meters, inHg, mmHg, inH ₂ O, mbar, hPa, PSIA	feet, meters, inHg, mbar
Airspeed Control Range	0 to 1,000.0 kts	32 to 1,000 knots
Pitot Sensor Range	0.300 to 112.000 inHg (Measure)	0.500 to 100.000 inHg (Measure)
Airspeed Resolution	0.1 kt, 0.01 mbar, 0.0001 inHg (Pt)	0.1 kt, 0.001 inHg
Airspeed Accuracy	± 0.004 inHg or 0.008% FS (full scale), whichever is greater	± 0.004 inHg from 0.500 to 32.000, increasing linearly to ± 0.010 inHg from 90.000 to 100.000 inHg
Airspeed Rate ¹	0 to 800 kts/min	0 to 500 kts/min (capable up to 800 kts/min)
Airspeed Units	IAS/CAS, kts, Qc, Mach, inHg, mmHg, inH ₂ O, mbar, km, hPa, PSIA, PSID, kph	Knots, Qc, Mach, km, inHg, mbar, mbar
MACH Range	0.0 to 10.0 Mach	0.1 to 5.0 Mach
Control Stability	0.001% Full Scale	± 0.0002 inHg from 0.50 to 10.000, increasing linearly to ± 0.0020 inHg at 90.000
Display	10.4-inch full color LCD w/ PCAP touchscreen	Two (2) six-digit tube displays
Pneumatic Inputs	Pitot (Pt): male JIC (1/4) 7/16-20 (front and rear) Static (Ps): male JIC (3/8) 9/16-18 (front and rear)	Pitot (Pt): male JIC (1/4) 7/16-20 (front and rear) Static (Ps): male JIC (3/8) 9/16-18 (front and rear)
Interfaces	RS-232, IEEE-488.2, VGA, USB (peripherals)	IEEE-488-1975 (ASCII)
Warm-up Time	5-10 minutes	30 minutes
Calibration Cycle ²	12 months	3-12 months
Operating Medium	Non-density sensitive (Clean Dry Air or Nitrogen)	Clean Dry Air or Nitrogen
Power	90 to 265 VAC, 47 to 440Hz, 1PH	115 / 230 VAC ±10% RMS, 45 to 440 Hz
Weight / Dimensions	38 lbs / 19 x 10.45 x 20 in (6U)	75.8 lbs / 19 x 12.25 x 23 in (7U)
Approvals	USAF AFMETCAL, US Navy METCAL, Honeywell	N/A

(1) All test set slew rates are load dependent and may be affected based on volume of the DUT. (2) Recommended calibration cycle, actual cycles are dictated by the end user.

