

ADC-2500V3 Air Data Calibrator Comparison

ADC-2500V3 NSN: 6695-01-686-5413

King Nutronics 3682



Specification		
Altitude Control Range	-3,000 to 109,985 ft	-2,000 to 90,000 ft
Static Sensor Range	0.2046 to 32.1480 inHg	0.300 to 32.000 inHg
Altitude Resolution	1 ft, 0.3 m, 0.01 mbar, 0.0001 inHg	1 ft, 0.001 inHg
Altitude Rate ¹	0 to 50,000 ft/min	0 to 35,000 ft/min
Altitude Rate Accuracy	± 1% of command rate	± 1% of command rate
Altitude Accuracy	0.01% or ± 0.002 inHg (± 0.0015 over RVSM range), whichever is greater	±0.002 inHg full scale
Altitude Units	feet, meters, inHg, mmHg, inH ₂ O, mbar, hPa, PSIA	feet, meters, inHg, mmHg, inH ₂ O, mbar PSIA
Airspeed Control Range	0 to 1,050.0 kts	0 to 1,000 knots
Pitot Sensor Range	0.3000 - 112.3230 inHg	0.500 - 110.000 inHg
Airspeed Resolution	0.1 kt, 0.01 mbar, 0.0001 inHg (Pt)	0.1 kt, 0.001 inHg
Airspeed Accuracy	0.01% or ± 0.004 inHg, whichever is greater	±0.004 inHg
Airspeed Rate ¹	0 to 800 kts/min	0 to 750 kts/min
Airspeed Units	IAS/CAS, kts, Qc, Mach, inHg, mmHg, inH ₂ O, mbar, km, hPa, PSIA, PSID, kph	Knots, Mach, inHg, mmHg, Qc
MACH Range	0.0 - 10.0 Mach	0 to 4.9 Mach
Display	10.4-inch full color LED w/ PCAP touchscreen	12 line / 40 character per line display
Pneumatic Inputs	2 Pitot (Pt) / 2 Static (Ps) on front and rear panels	1 Pitot (Pt) / 1 Static (Ps) on case top
Interfaces	RS-232, TTU-205J, LAN, IEEE-488.2, VGA, USB (3)	IEEE-488
Software Apps	ADC, EccADC, ADTS4X5, ADTSCal	N/A
ADC Control Loop	Proportional Control (V3) with Pre-Regulation	N/A
Calibration Cycle ²	12 to 18 months	6-12 months
Operating Medium	Non-density sensitive (Clean Dry Air or Nitrogen)	Non-density sensitive (Clean Dry Air or Nitrogen)
Power	90 to 265 VAC, 47 to 440Hz, 1PH	115 VAC, 50/60 Hz, 1 PH
Dimensions	19 x 10.45 x 20 in (6U)	24in x 20 in x 18 in
Weight	38 lbs	75 lbs
Warranty	1 year standard / +1, 2, 3 or 4 year options	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.

