

RVSM solution for the SPZ-500

Honeywell



AZ-252 Advanced Air Data Computer



The AZ-252
Advanced Air
Data Computer

As operators evaluate their options to keep their aircraft compliant with modern regulatory initiatives, trust in their supplier of precision avionics is at the top of the list of avionics selection criteria. Honeywell, the leader in air data technology for the past 45 years, has earned this trust.

Honeywell designed and certified its highly successful SPZ-500 flight controls system in the 1970s and continues to support this system on legacy Citations and Falcons. Because we best understand the performance requirements for these aircraft, we have developed a new advanced air data computer (AADC), the AZ-252, to meet the new, stringent requirements of flight in Reduced Vertical Separation Minimum (RVSM) airspace.

The key factor necessary for such an approval is the replacement of the existing ADCs found on these aircraft. The AZ-252 is that replacement.

The AZ-252 provides operators with a straight-forward and effective solution for RVSM compliance by combining Honeywell's leading-edge sensor technology and experience in air data applications.

Aerospace Electronic Systems

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Key features include:

- SSEC/Vmo/Overspeed Warning (Multiple Curves)
- Aircraft / Unit ID (7 Bits)
- Altitude Switch Trip (FZ-500)
- Altitude Preselect Support (AL-800/801 compatible)
- VNAV Computation Support (VN-800/801 compatible)
- TAS AC Output (ARINC 565)
- Mach/Airspeed Indicator Outputs (SI-225)
- Vertical Speed Indicator Outputs (VS-200)
- TCAS / EGPWS / RNAV DC Analog Outputs
- FZ-500 Flight Director Computer Interfaces
- Altitude Fine Resolver DC Coarse for Indicator
- SAT/TAT/TAS Display Support (DS-125 compatible)
- 26 VAC Power Output for ALT Indicator
- ATC Altitude Encoding (ARINC 565)
- ARINC 429 Inputs (2)/Outputs (4)
- RS-232 Maintenance Bus
- Internal Bite @ 90% Coverage with NVM Storage and Download
- DO-178B Level A and DO-160D compliant

Key benefits include:

- Form factor compatibility with the AZ-241 mount and pin factor compatibility with the existing AZ-241 connector
- Use of a second 106 pin connector which allows optional system enhancements
- Support of the SPZ-500 AFCS interface for accurate altitude hold / preselect capability
- Incorporation of a precision silicon pressure sensor (as used in the highly accurate, reliable, and stable AZ-840/850 Micro Air Data Computers) for RVSM compliance
- Decreased weight and power consumption
- Cost of ownership reduction
- Supports the replacement of VN-212 / AL-285 Analog Controllers

Global support

While Honeywell's avionics are based on proven technology to provide you with exceptionally high reliability and simplified maintenance, when service is needed, our customer support engineers and service centers are strategically located around the world to provide efficient, responsive support. As always, our SPEX exchange service is available 24-hours a day.

In addition to providing avionics designed for rigorous business travel environments, Honeywell also gives you extensive support that includes maintenance training, pilot courses, support documentation and on-site support at your facility.

Honeywell AZ-252 Advanced Air Data Computer Specifications

Design Parameter	Performance
Power	<35 watts (115Vac, 400Hz)
Size	3.59 x 15.52 (incl. Handle) x 5.95
Weight	8.5 lbs max
TSO	C106, C88a, C52b