

Reduce operating costs with spectacular reliability



**Lowest cost of ownership with
thin and light MEMS AHRS**

Honeywell

Honeywell's new AH-1000 is a Micro Electro Mechanical System (MEMS) Attitude and Heading Reference System (AHRS) designed to serve as the AHRS of choice for commercial aerospace primary or secondary attitude and heading systems

AH-1000

The AH-1000 AHRS has been designed to provide unparalleled reliability and performance with significantly reduced size and weight compared to similar systems. This allows the AH-1000 to provide the lowest total cost of ownership experience for an ARINC-705 AHRS.



Benefits

- ARINC-705 AHRS capability in a smaller and lighter form factor, significantly less than comparable systems, reduces operational costs
- Extraordinarily reliable with estimated >30,000 hour Mean Time Between Failure (MTBF)
- Most accurate attitude and heading MEMS AHRS available on the market today including TSO C5f for directional gyro mode
- Full digital interface using proven Honeywell Aerospace MEMS technology
- Interfaces with Honeywell's KMG7010 3-axis solid state magnetometer
- Aircraft Personality Module (APM) stores aircraft-specific information, installation options, and calibration data

Find Out More

For more information on Honeywell's AH-1000 AHRS and other inertial products, visit www.honeywell/aero

Honeywell Aerospace

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CHARACTERISTICS

Attitude Operational Modes (2)	Normal Mode with TAS aiding, and Basic Mode without TAS aiding
Attitude (Dynamic)	1.0 degree normal mode 2.0 degree basic mode
Attitude (Static)	0.5 degree normal mode 1.0 degree basic mode
Heading Operational Modes (2)	Magnetic Mode: Heading slaved to magnetic sensor, and Free drift directional gyro (DG) mode
Heading (Dynamic)	2.0 degree magnetic mode 10.0 degree/hour DG mode (5 degree/hour typical DG mode)
Alignments (2)	On-ground alignments of 15 seconds, and In-Air quick alignment of 5 seconds
Reliability	>30,000 hour MTBF
Certifications	Suitable for applications requiring Design Assurance Level (DAL) A Software – DO-178B Level A (maintenance Level D) Hardware – DO-254 Level A Environmental – DO-160F
TSO/ETSO	TSO C3e, C4c, C5f, C6e (ETSO C3d, C4c, C5e, C6e)
Interfaces	ARINC 429 and discrete I/O CAN bus (magnetometer) I ² C (Aircraft Personality Module)
Connector	Standard MIL-DTL-38999 Type III circular
Size	2.5 x 5.0 x 7.8 inches (97 cubic inches) 63.5 x 127 x 198.12 mm (1598 cubic cm)
Weight	3.2 lbs (1.45 kg)
Power	12W max @ 28 VDC (8W typical)
Cooling	Passive

Accuracies are two sigma or 95%