

Rockwell Collins AHRS 1000/3000



Precision and reliability you can rely on; Lower life cycle costs than conventional systems.

Rockwell Collins AHS-1000()/AHS-3000() Attitude Heading Reference System (AHRS) features digital quartz microelectromechanical systems (MEMS) sensors that provide heading and attitude information to the flight deck and other on-board systems – information absolutely essential to flight. It is a certified solid-state system that is more accurate, far more reliable and has a lower life-cycle cost than conventional systems.

The system is designed to be a perfect fit in new aircraft and an ideal replacement for existing mechanical equipment. Its advanced construction includes no moving parts and provides up to a 10,000-hour mean time between failures (MTBF) rating, helping to ensure reliability, dispatchability and a lower cost of ownership when compared with conventional attitude and heading gyro technology. In addition, the AHS-1000()/3000() system is built to withstand extreme environments involving high roll rates and vibration and is designed for use in a variety of aircraft types.

KEY FEATURES

- › Solid-state sensor technology for high reliability
- › Interfaces with five- or six-wire flux detector
- › Available with or without mounting flanges
- › Reduced weight, size and power requirements
- › Automated compass swing
- › Automated mount leveling
- › Configurable outputs for interface flexibility

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SPECIFICATIONS

Selection Guide

Type	<u>FDU-3000</u>	Five-wire <u>FDU</u>	<u>Part Number</u>
AHC-1000A	X		822-1871-201
AHC-1000S		X	822-1868-201
AHC-3000	X		822-1110-001
AHC-3000A	X		822-1378-001
AHC-3000S		X	822-1800-001

Physical Characteristics

	<u>AHC-1000A/S</u>	<u>AHC-3000/A/S</u>
Weight	4.60 lbs	4.60 lbs
Height	5.19 in (with flanges) 5.00 in (w/out flanges)	5.00 in
Width	3.50 in (with flanges) 2.50 in (w/out flanges)	2.50 in
Length	13.13 in	13.32 in

Environmental

	<u>AHC-1000A/S</u>	<u>AHC-3000/A/S</u>
Temperature	-55°C to 70°C	-55°C to 70°C
Altitude	55,000 ft	55,000 ft

Power Requirements

	<u>AHC-3000S</u> <u>AHC-1000S</u>	<u>AHC-3000</u>
28 VDC	28 VDC	28 VDC
27 W nom	25.5 W nom	16 W nom

Sensor Range

	<u>AHC-1000A/S</u>	<u>AHC-3000/A/S</u>
Pitch	±90°	±90°
Roll	±180°	±180°
Heading	±180°	±180°
Body Rates	±410°/s	±410°/s
Accelerations	±15 g	±15 g

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

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Rockwell Collins delivers smart communication and aviation electronics solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

For more information contact:

Rockwell Collins
400 Collins Road NE
Cedar Rapids, Iowa 52498
319.295.4085
email: csmarketing@rockwellcollins.com
www.rockwellcollins.com

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