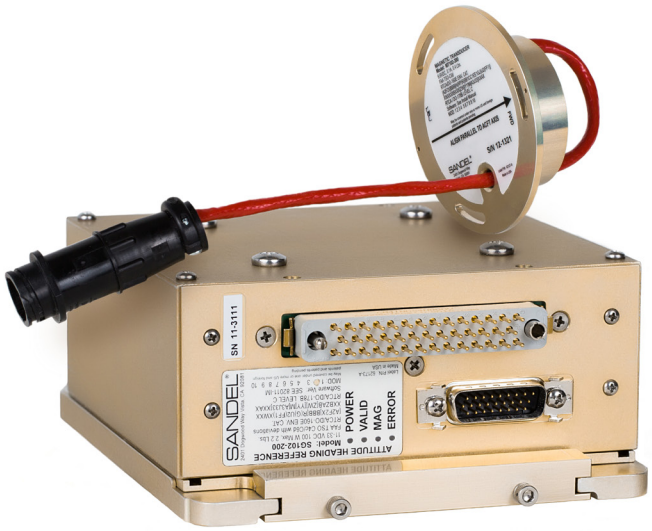
SG102 AHRS



The Sandel SG102 (MOD2) Attitude Heading Reference System (AHRS) has an initialization time that is 3Xs faster then the previous version. It also now comes with selectable low- and high-speed ARINC 429 outputs, which allows for additional interface options with radar systems, satellite communicator antennas and other avionics.

It is an affordable, solid-state replacement for older directional gyros in your piston, turboprop, jet aircraft, or helicopter. With an MTBF of more than 10,000 hours, the SG102 (MOD2) is the most practical way to dramatically increase the reliability of your aircraft's compass system.

See what's next

SANDEL

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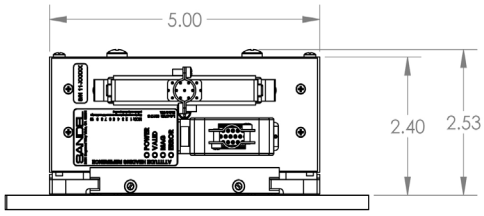
היפר-טק מערכות

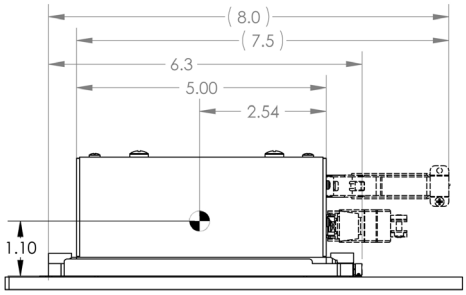
SG102 AHRS

(MOD2)

- Certified for primary heading reference and secondary attitude
- Solid state, plug-compatible upgrade for the Bendix/King KG102A directional gyro
- Compatible with all common directional gyro interfaces
- Pitch and roll output for auxiliary applications requiring stabilization



FRONT VIEW



SIDE VIEW

Weight	
SG102-000/100/200	2.4 lbs (1.08 kg) including connectors
MT102 Magnetic Transducer	0.4 lbs (0.18 kg)
SG102 Mounting Base	0.6 lbs (0.27 kg)
Dimensions	
SG102-000/100/200	5.0 in x 6.3 in x 2.53 in (12.7 cm x 15.9 cm x 6.1 cm)
MT102 Magnetic Transducer	3.4 in diameter, 1.0 in height (8.6 cm x 2.4 cm)
SG102 Mounting Base	5.0 in x 6.1 in x 0.3 in (12.7 cm x 15.5 cm x .9 cm)
Power Requirements	11-33VDC, 30W maximum, 15W nominal
Inverter Output	26VAC, 400Hz, 5VA (no external inverter required)
Cooling Requirements	None
Operating Environment	
Temperature	-55° C to +70° C
Altitude	+55,000 feet maximum
Performance	
Initialization Time	Approximately 1 minute nominal
Accuracy	+/- 1 degree magnetic heading
Body Rate Limits	+/- 250 °/sec
MTBF	>10,000 hours, calculated
Certification Basis *SG102-000/100/200*	TSO C4c, Bank and Pitch Instruments TSO C6d, Direction Instrument, Magnetic (Gyroscopically Stabilized) EASA ETSO, C4c, C64 RTCA/DO-178B, Software Level C RTCA/DO-160E Env. Cat. SG102-000: [A2F2X]BBB[S(LM)H(R)]XWXXXXBZAB[ZW][YY] M[A3J33]XXAX SG102-100: [A2F2X]BBB[H(R)R(BB1CC1)]XWXXXXBZAB[ZW][YY] M[A3J33]XXAX SG102-200: [A2F2X]BBB[R(G)U2(FF1)]XWXXXXBZAB[ZW][YY] M[A3J33]XXAX
MT102 Magnetic Transducer	TSO C6d, Direction Instrument, Magnetic (Gyroscopically Stabilized) EASA ETSO, C6d RTCA/DO-160E Env. Cat. [A2F2X]BBB[H(RP)R(BB1CC1EE1GJ)U2(FF1)]XWXXXXBXXX[ZW][YY] M[A3J33]XXAX RTCA/DO-178B, Software Level C
Interfaces *Magnetic Heading*	ARINC 407 (XYZ Synchro), Stepper Motor (KG 102A), ARINC 429 Low or High speed, RS-232
Pitch and Roll	ARINC 429 Low or High speed*

*Not certified for primary attitude. Pitch and roll data for auxiliary applications only, including reversionary attitude

Dimensions and specifications subject to change without notice.

See what's next

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