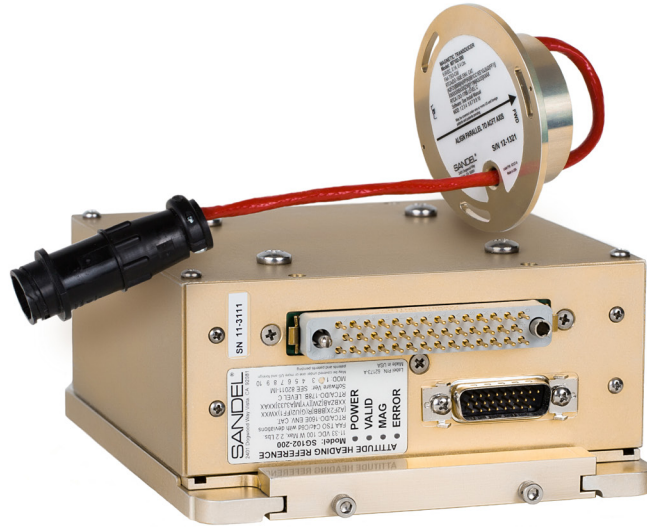


SG102 AHRS



The Sandel SG102 (MOD2) Attitude Heading Reference System (AHRS) has an initialization time that is 3Xs faster than 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.

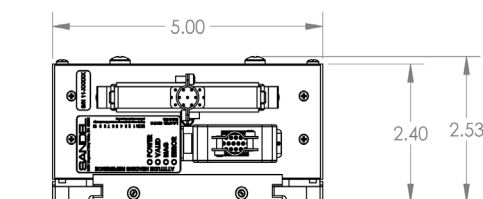
See what's next

SANDEL.

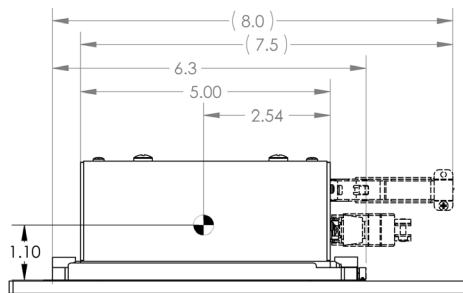
SG102 AHRS

(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.