SG102/D AHRS



D, for Digital. The SG102/D Attitude Heading Reference System (AHRS) is identical to the SG102 (MOD2) without the analog interfaces. It's lighter in weight and lighter in price. The SG102/D is designed for non-KG102 equipped aircraft and ideal for new equipment installs.

With an improved initialization time of one minute, it's 3X faster than the original SG102. It also comes with a selectable low- and high-speed ARINC 429 output, which allows for additional interface options such as radar systems, satellite communicator antennas and FLIR stabilization.



Fly Safe.

SG102/D AHRS

SG102/D-050: Piston A/C	Weight	
SG102/D-150: Turbine A/C	SG102-050/150/250 MT102 Magnetic	1.65 lbs (0.75 kg) including connectors
SG102/D-250: Helicopter	Transducer	0.61 lbs (0.28 kg)
Certified for primary heading reference and	SG102 Mounting Base	0.61 lbs (0.28 kg)
socondary attitude	Dimensions	
	MT102 Magnetic	5.0 In x 6.3 In x 2.53 In (12.7 cm x 16 cm x 6.4 cm)
	Transducer	3.4 in diameter, 1.0 in height (8.6 cm x 2.5 cm)
Compatible with digital heading interfaces	SG102 Mounting Base	5.0 in x 6.1 in x 0.3 in (12.7 cm x 15.5 cm x 0.8 cm)
• Pitch and roll output for auxiliary applications	Power Requirements	11-33VDC @ nominal 8 watts Startup current:Approximately 18 watts 1 minute
requiring stabilization	Cooling Requirements	None
	Operating Environment	
	Temperature	-55° C to +70° C
	Altitude	+55,000 feet maximum
5.00	Performance	
	Initialization Time	Approximately 1 minute nominal
(BANDE: 10.2] (2.53)	Accuracy	Magnetic heading: +/- 2 degrees nominal Pitch & Roll: 0.25 degrees typical
	Body Rate Limits	+/- 250 º/sec
	MTBF	>10,000 hours, calculated
	Certification Basis	
	SG102-050/150/250	TSO C4c, Bank and Pitch Instruments
6.3		TSO C6d, Direction Instrument, Magnetic (Gyroscopically Stabilized)
2.54		EASA ETSU, C4C, C64 RTCA/DO-178B. Software Level C
		RTCA/DO-160E Env. Cat.
		SG102-050: [A2F2X]BBB[S(LM)H(R)]XWXXXXBZAB[ZW][YY]
SIDE VIEW		[A3J33]XXAX
		<u>SG102-250</u> : [A2F2X]BBB[R(G)U2(FF1)]XWXXXXBZAB[ZW][YY] M[A3I33]XXAX
	MT102 Magnetic	TSO C6d, Direction Instrument, Magnetic (Gyroscopically Stabilized)
	Transducer	EASA ETSO, C6d
		RTCA/DO-160E Env. Cat.
		[A3J33]XXAX
		RTCA/DO-178B, Software Level C
	Interfaces	
	ARINC 429	Single output, Low or high speed
	RS232	iviagnetic Heading, Pitch & Koli*, Body Acceleration Stormscope Format
		* Not certified for primary attitude. Pitch and roll data for auxiliary

applications only, including reversionary attitude



Dimensions and specifications subject to change without notice.