

NGC-SENSOR PACKAGE

ANTENNA CONTROLLER

The NGC-SEN-## Sensor Package is available in two forms; Fixed Antennas, and tactical/Transportable antenna systems. This integration base package includes inclinometers, compass, & GPS.

Conveniently packaged in a single environmental package, except for the antenna, the NGC-SEN-## is designed to provide optimal performance in a cost effective, easy to access and mount package. The NGC-SEN-## package is tightly integrated in the NGC algorithms for seamless and highly integrated operation.

KEY FEATURES

- Discretely mounted, easy access
- Pre-connecterized for Field Replaceable Units (FRU)
- Protected internal cabling
- Modular & Upgradeable Design
- Supports all available NGC Features & Options

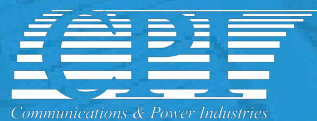
KVH MODEL C100	
Microprocessor Control	
Resolution	0.1° or 1 mil
Accurac	±0.5° or ±10 mils RMS
Repeatability	±0.2° or ±5 mils RMS
Tilt Angle	±16°; Dev = ±0.3° RMS (SE-25)
Dip Angle	±80°
Response Time	0.1 to 24 seconds
Data Output	0 to +5V levels
Clock Output	0 to +5V sq. wave @ 10 KHz rate
Data Format	4 digit BCD, 16 bit binary or 16 bit serial
Sine/Cosine	Output Voltage: +1.5V ±1.0V
	Reference Voltage: +1.5 VDC
	20K Ohm min load capability
Linear Voltage	0.1 to 1.9VDC in 20K Ohm min load
Operating Voltage	+8 to +18VDC @ 40mA max
Operating/Storage Temperature	-40° to +65° C / -57° to +71° C

GPS		
Standard Positioning Service (SPS) NMEA 0183		
Coordinate Datum	WGS 84	
Performance	12 Satellite, L1 carrier, CA cod	
Accuracy	Position:	5m w/o S/A
	Velocity:	0.1m/sec w/o S/A
	Time:	±1µ sec
Acquisition	Cold:	50 sec (ave)
	Warm:	35 sec (ave)
	Hot:	2 sec (ave)
Sensitivity	Tracking:	-152 dBm
	Acquisition:	-139 dBm
Dynamics	Altitude:	18,000m
	Velocity:	500m/sec
	Acceleration:	Max ±4g
Operating Voltage	+5VDC 120mW max	
Operating/Storage Temperature	-40° to +85° C / -50° to +100° C	

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PITCH & ROLL2				
Honeywell (HMR3400)				
MEMS Accelerometer				
Heading	Accuracy	Level	1°	
		0° to 30°	3°	
		30° to 60°	4°	
	Resolution	0.1°		
	Hysteresis	0.2°		
	Repeatability	0.2°		
Pitch	Rol & Pitch Range	±60°		
	Accuracy	0° to ±30°	0.4°	
		±30° to ±60°	1°	
	Null Accuracy	Level	0.4°	
		-20° to +70° C	1°	
		Thermal Hysteresis	5°	
		-40° to +85° C		
	Resolution	0.1°		
	Hysteresis	0.2°		
Repeatability	0.2°			
Magnetic Field	Flux Density	±2 gauss		
	Resolution	0.1 milligauss		
Operating Voltage		+5VDC @ 24mA max		
Operating/Storage Temperature		-20° to +70° C / -50° to +125° C		



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