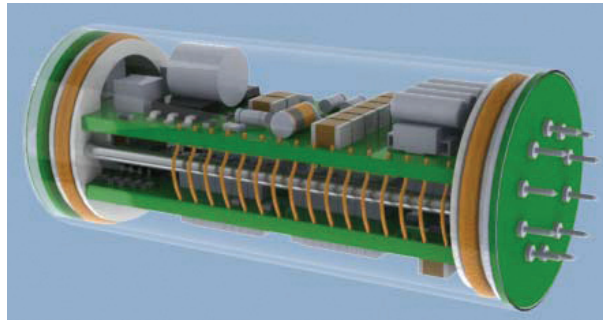


Condor Pacific

Gyro Manufacture Repair Overhaul

MEMS Rate Sensors

Precision Instruments offers MEMS rate sensors configured to be FORM, FIT, and FUNCTION to replace legacy rate gyros for many applications.



Typical Specifications

Parameter	Performance
Full Scale Rate	10 to 350°/Sec
Full Scale Outputs	7 VRMS or 10VDC
Scale Factor Accuracy @ RT	±1%
Scale Factor Accuracy OTR	±3%
Bias at RT	±0.3% of Full Scale
Bias OTR	±0.5% of Full Scale
Bandwidth	5Hz to 75Hz
Noise (See Note 1)	Dependent on Bandwidth
Alan Variance	<15°/Hr
Damping Ratio OTR	0.6 to 0.8 of Critical
Linear Acceleration Sensitivity	±0.05°/Sec/g
Angular Acceleration Sensitivity	<0.05°/Sec/g ²
Shock Capability Survival 200g's	0.5 to 5msec
Vibration Capability Performance	2.5g's 5 – 500Hz
Vibration Capability Survival	15g's 5 – 2000Hz

These parameters are for reference only.
Submit requirements for specific performance capability.

Noise is dependent on Bandwidth.
Typical noise for a 25Hz Bandwidth unit is .25°/Sec peak to peak 3 sigma.
Based on 1000 samples taken over a 10 second time period.

Higher performance units available upon request.

Example configurations

DC IN / DC OUT
5 to 28 VDC Input
Scale Factor to Customer Requirement

AC IN / AC OUT
15 to 115 VAC Input -
400 to 4000Hz
AC Output Phase Referenced to AC Input
Scale Factor to Customer Requirement

AC IN / DC OUT
15 to 115 VAC Input -
400 to 4000Hz
DC Output - Rotation Dependent Polarity
Scale Factor to Customer Requirement

Many Input / Output configurations and mounting requirements can be accommodated upon request

CAGE CODE: 5ZGZ4

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