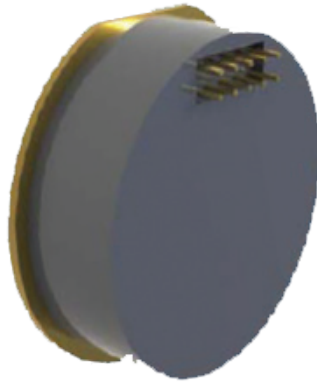


# Condor Pacific

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 <sup>2</sup>
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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