

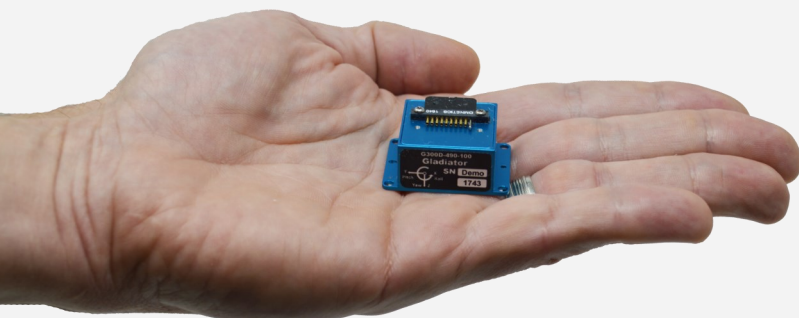


G300D

Digital Triaxial MEMS Gyroscope



The G300D is Gladiator Technologies' high speed, three-axis MEMS gyroscope. Equipped with low noise sensors, VELOX™ processing and user configurable firmware, the G300D comes factory calibrated and is ideal for stabilization and precision measurement applications.



Low Noise: $0.0028^{\circ}/s/\sqrt{Hz}$



Excellent Bias Stability: $5^{\circ}/h$



VELOX™ High Speed Processing



Factory Calibrated: $-40^{\circ}C$ to $85^{\circ}C$



NON-ITAR

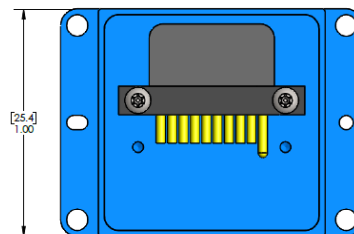
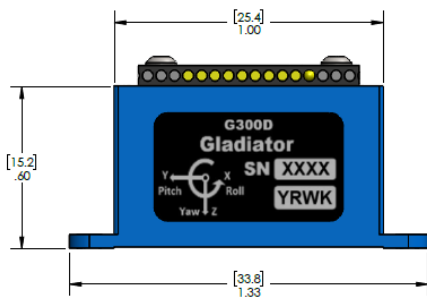
Low Noise. High Performance.



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G300D Gyroscope

Performance		
Parameter	Gyro	
Range	$\pm 250^\circ/\text{s}$	$\pm 490^\circ/\text{s}$
ARW / VRW	$0.0028^\circ/\text{s}/\sqrt{\text{Hz}}$	$0.003^\circ/\text{s}/\sqrt{\text{Hz}}$
Bias In-Run	5°/h	
Bias Over Temp.	< 0.1°/s	
Sensor Resolution	0.0014°/s	
G Sensitivity	< 0.001°/s/g	
Scale Factor Error	≤ 0.03% (over temperature)	
Alignment	0.5 mrad	
Environment		
Shock	600 g 1/2 sine 1 ms powered on	
Vibration	8 g _{RMS} (20 Hz to 2 kHz) random	
Operating Temp	-50°C to +85°C	
Non-Operating Temp	-55°C to +85°C	
Interface — with VELOX™ Processing		
Update Rate	Up to 5 kHz (User Selectable)	
External Sync	Up to 8 kHz (User Selectable)	
Start Up Time	< 0.15 s	
Data Format	16/24/32 - Bit	
Data Interface	RS-422/RS-485 6 Mbaud	
Bandwidth	350 Hz	
Software	Development Kit Available	
Electrical		
Input Voltage	+3.8 V to +5.5 V Max. Input (single sided)	
Power Consumption	200 mW Typical / 250 mW Maximum	
Mechanical		
Mass	19 grams	
Size	Metric: 2.54 x 2.54 x 1.52 = 9.8cm ³ US: 1.0 x 1.0 x 0.6 = 0.6in ³	



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8020 Bracken Place SE
Snoqualmie, WA 98065
+1 425 363 4180

www.gladiatortechnologies.com
sales@gladiatortechnologies.com

www.gladiatortechnologies.com/g300d

All performance parameters 1σ
Specification subject to change without notice
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