

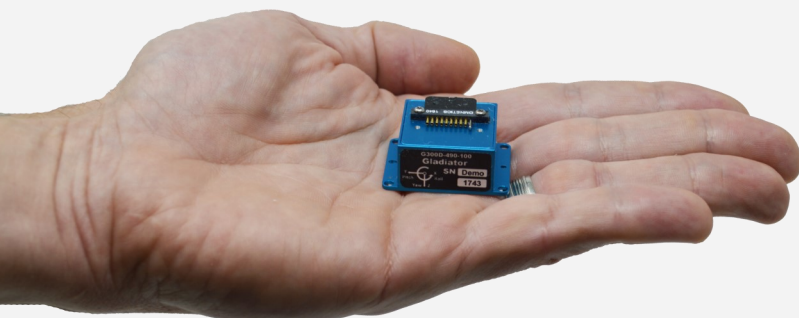


# G300D

## 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

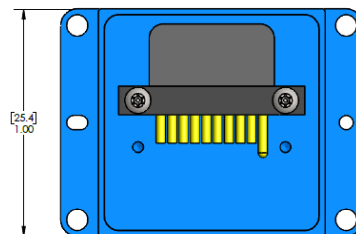
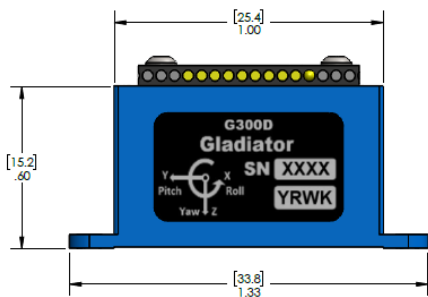
Low Noise. High Performance.



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# G300D Gyroscope

Performance	
Parameter	Gyro
Range	$\pm 250^\circ/\text{s}$ $\pm 490^\circ/\text{s}$
ARW / VRW	0.0028 $^\circ/\text{s}/\sqrt{\text{Hz}}$
Bias In-Run	5 $^\circ/\text{h}$
Bias Over Temp.	< 0.1 $^\circ/\text{s}$
Sensor Resolution	0.0014 $^\circ/\text{s}$
G Sensitivity	< 0.001 $^\circ/\text{s}/\text{g}$
Scale Factor Error	$\leq 0.03\%$ (over temperature)
Alignment	0.5 mrad
Environment	
Shock	600 g $\frac{1}{2}$ sine 1 ms powered on
Vibration	5.74 g <sub>RMS</sub> (20 Hz to 2 kHz) random
Operating Temp	-50 $^\circ\text{C}$ to +85 $^\circ\text{C}$
Non-Operating Temp	-55 $^\circ\text{C}$ to +85 $^\circ\text{C}$
Interface — with VELOX™ Processing	
Update Rate	Up to 10 kHz (User Selectable)
External Sync	Up to 10 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	17.5 grams
Size	Metric: 2.54 x 2.54 x 1.52 = 9.81 cm <sup>3</sup> US: 1.0 x 1.0 x 0.6 = 0.6in <sup>3</sup>



[www.gladiatortechnologies.com/g300d](http://www.gladiatortechnologies.com/g300d)

All performance parameters 1 $\sigma$   
 Specification subject to change without notice  
 Rev. 03.14.19



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