

# 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.



**GLADIATOR**  
TECHNOLOGIES

# G300D Gyroscope

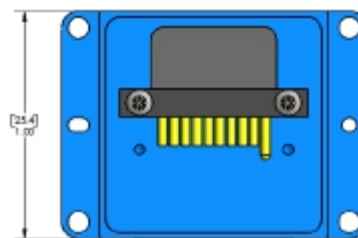
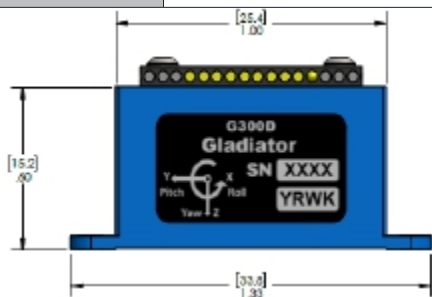
Performance	
Parameter	Gyro
Range	$\pm 250^\circ /s$ $\pm 490^\circ /s$
ARW/VRW	$0.0028^\circ /s/\sqrt{Hz}$
BiasIn-Run	$5^\circ /h$
BiasOverTemp.	$<0.1^\circ /s$
SensorResolution	$0.0014^\circ /s$
GSensitivity	$<0.001^\circ /s/g$
ScaleFactorError	$\leq 0.03\%$ (overtemperature)
Alignment	$0.5mrad$

Environment	
Shock	$600g \frac{1}{2}$ sine 1ms powered on
Vibration	$5.74g_{RMS}$ (20Hz to 2kHz) random
OperatingTemp	$-50^\circ C$ to $+85^\circ C$
Non-OperatingTemp	$-55^\circ C$ to $+85^\circ C$

Interface — with VELOX™ Processing	
UpdateRate	Upto 10kHz (User Selectable)
ExternalSync	Upto 10kHz (User Selectable)
StartUpTime	$<0.15s$
DataFormat	16/24/32-Bit
DataInterface	RS-422/RS-485 Mbaud
Bandwidth	350Hz
Software	Development Kit Available

Electrical	
InputVoltage	+3.8V to +5.5V Max. Input (single sided)
PowerConsumption	200mW Typical / 250mW Maximum

Mechanical	
Mass	17.5grams
Size	$33$ Metric: $2.54 \times 2.54 \times 1.52 = 9.81 \text{ cm}$ US: $1.0 \times 1.0 \times 0.6 = 0.6 \text{ in}$



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

*All performance parameters Iσ  
Specification subject to change without notice  
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