

PRELIMINARY



G400D

Triaxial Gyroscope with VELOX™



The G400D is a high-speed, three-axis MEMS gyro featuring low-noise sensors, VELOX™ processing, and configurable firmware. Fully calibrated over temperature, it delivers unmatched precision and stability for mission-critical applications.

0.0254°/vHr
ARW

10 kHz
Output Rate

35°/hr
Bias Over Temperature

600Hz
Bandwidth

0.63
Cubic Inches

20µs
Message Delay

MISSION PROVEN
Inertial Sensors and Systems



G400D Gyroscope

Performance	G400D-300-100C	G400D-300-100B	G400D-300-100A
Range	+/- 300°/s	+/- 300°/s	+/- 300°/s
ARW	0.0254°/√Hr	0.0424°/√Hr	0.0635°/√Hr
Bias In-Run	0.8°/h	1.5°/h	3°/h
Bias Over Temperature	35°/h	60°/h	90°/h
Scale Factor Error	500 ppm	600 ppm	750 ppm

Environment

Shock (Operational)	1000 ½ sine ½ msec powered		
Vibration (Operational)	8 gRMS (50 Hz to 2 kHz)		
Calibrated Temp	-50°C to +85°C		
Storage Temp	-55°C to +85°C		
G Sensitivity	< 0.01°/s/g	< 0.01°/s/g	< 0.03°/s/g
Reliability 55°C (MTBF)	>170,000 Hrs		

Interface

Interface	VELOX™	VELOX™ Plus
Data Interface	RS-422/485	16/24/32 Bit
Data Rate	8 kHz	10 kHz
External Sync	8 kHz	10 kHz
Max Baud Rate	3.0 Mbaud	7.5 Mbaud (user specified)
Max Bandwidth	270 Hz	600 Hz
Digital Message Delay	60 µs	20 µs

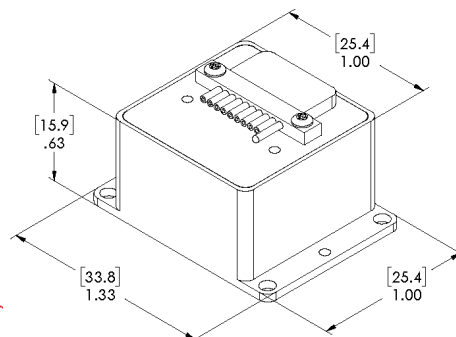
Electrical

Input Voltage	+4.0 V to + 5.5 V Max (single sided)
Power Consumption	500 mW Typical / 640 mW Maximum

Mechanical

Mass	17+/-1g
Size	Metric: 2.54 x 2.54 x 1.58 = 10.2 cm ³ US: 1.0 x 1.0 x 0.63 = 0.63in ³

All performance parameters typical value
Specification subject to change without notice
Rev. 26.05.22



**Further Technical
Information Available:**

www.gladiatortechnologies.com

NON ITAR



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