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MRM60 IMU

High Performance Analog MEMS IMU



The MRM60 is a six-axis, analog IMU featuring low noise gyros and accelerometers. This IMU is designed for applications in stabilization, motion monitoring, navigation, and other applications requiring a high performance IMU with analog output



Low Noise: $0.0016^{\circ}/s/\sqrt{Hz}$



Excellent Bias Stability: $3^{\circ}/\text{Hour}$



Analog Output: $\pm 2.5\text{ V}$ or $\pm 5\text{ V}$



Factory Calibrated: -40°C to 85°C



NON-ITAR

Low Noise. High Performance.



GLADIATOR
TECHNOLOGIES

MRM60 Analog IMU

Performance (available in any combination of gyro & accel ranges)

Parameter	Gyro		Accel	
Range	±250°/s	±490°/s	±6 g	±15 g
ARW / VRW	0.0016°/s/√Hz	0.0016°/s/√Hz	0.04 mg/√Hz	0.05 mg/√Hz
Bias In-Run	3°/h	5°/h	0.025 mg	0.03 mg
Bias Over Temp.	< 90°/h	< 90°/h	< 1 mg	< 1.5 mg
Resolution	0.001°/s	0.001°/s	0.03 mg	0.0064 mg
G Sensitivity	0.001°/s/g	0.03°/s/g	0.25 mg/g ²	0.4 mg/g ²
Scale Factor Error	≤ 500 ppm (over temperature)			
Alignment	< 0.5 mrad			

Environment

Shock	600 g ½ sine 1 msec powered on
Vibration	5.74 g _{RMS} (20 Hz to 3 kHz)
Operating Temp	-40°C to +85°C
Non-Operating Temp	-55°C to +85°C

Interface

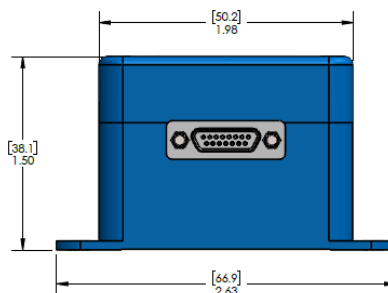
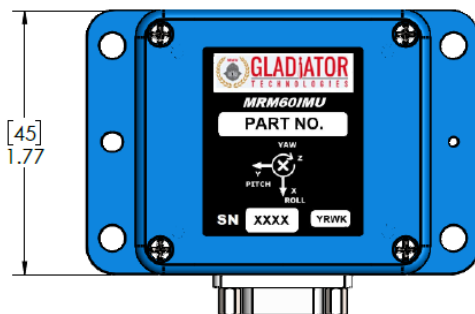
Analog Signals	100 Model ±5 volts full scale, 200 Model ±2.5 volts full scale
Temp Sensors	Internal
Start Up Time	< 0.25 sec
Self Test	3.3 V Logic Level
Data Interface	Analog
Bandwidth	250 Hz

Electrical

Input Voltage	+7 V to +36 V Max. Input (single sided)
Power Consumption	900 mW Typical / 1000 mW Maximum

Mechanical

Mass	120 grams
Size	Metric: 5.0 x 4.5 x 3.9 = 86.6 cm ³ US: 1.98 x 1.77 x 1.52 = 5.32 in ³



www.gladiatortechnologies.com/mrm60

All performance parameters 1σ
Specification subject to change without notice
Rev. 03.14.19



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