

Ihr Ansprechpartner in
Deutschland, Österreich
und der Schweiz

Willburger System GmbH
Auf der Schuchen 11
82418 Seehausen am
Staffelsee

GERMANY

Tel.: +49 8841 3028
Email: info@willburger.de

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: $3^\circ /Hour$



Analog Output: $\pm 2.5 V$ or $\pm 5 V$



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



NON-ITAR

Low Noise. High Performance.



GLADIATOR
TECHNOLOGIES

MRM60 Analog IMU

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

Parameter	Gyro		Accel	
	Range	$\pm 250^\circ /s$	$\pm 490^\circ /s$	$\pm 6g$
ARW/VRW	$0.0016^\circ /s/\sqrt{Hz}$	$0.0016^\circ /s/\sqrt{Hz}$	$0.04mg/\sqrt{Hz}$	$0.05mg/\sqrt{Hz}$
BiasIn-Run	$3^\circ /h$	$5^\circ /h$	$0.025mg$	$0.03mg$
BiasOverTemp.	$<90^\circ /h$	$<90^\circ /h$	$<1mg$	$<1.5mg$
Resolution	$0.001^\circ /s$	$0.001^\circ /s$	$0.03mg$	$0.0064mg$
GSensitivity	$0.001^\circ /s/g$	$0.03^\circ /s/g$	$0.25mg/g^2$	$0.4mg/g^2$
ScaleFactorError	$\leq 500ppm(\text{overtemperature})$			
Alignment	$<0.5mrad$			

Environment

Shock	$600g \frac{1}{2} \text{ sine } 1 \text{ msec powered on}$
Vibration	$5.74g_{RMS}(20Hz \text{ to } 3kHz)$
OperatingTemp	$-40^\circ C \text{ to } +85^\circ C$
Non-OperatingTemp	$-55^\circ C \text{ to } +85^\circ C$

Interface

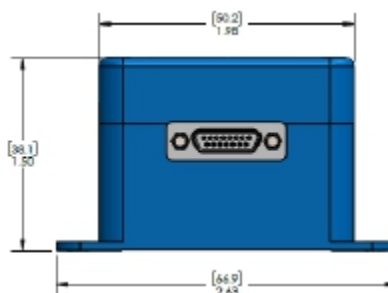
AnalogSignals	$100\text{Model} \pm 5\text{volts fullscale}, 200\text{Model} \pm 2.5\text{volts fullscale}$
TempSensors	Internal
StartUpTime	$<0.25\text{sec}$
SelfTest	$3.3V \text{ Logic Level}$
DataInterface	Analog
Bandwidth	$250Hz$

Electrical

InputVoltage	$+7V \text{ to } +36V \text{ Max. Input (single sided)}$
PowerConsumption	$900mW \text{ Typical} / 1000mW \text{ Maximum}$

Mechanical

Mass	120grams
Size	33 Metric: $5.0 \times 4.5 \times 3.9 = 86.6\text{cm}$ US: $1.98 \times 1.77 \times 1.52 = 5.32\text{in}$



www.gladiatortechnologies.com/mrm60

All performance parameters 1 σ
Specification subject to change without notice

Rev. 03.14.19



Ihr Anprechpartner in
Deutschland, Österreich
und der Schweiz

Willburger System GmbH
Auf der Schuchen 11
82418 Seehausen am
Staffelsee

GERMANY

Tel.: +49 8841 3028
Email: info@willburger.de



8020 Bracken Place SE
Snoqualmie, WA 98065
+1 425 396 0829

www.gladiatortechnologies.com
sales@gladiatortechnologies.com