

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



A40 ACCELEROMETER

Single Axis Accelerometer

The Gladiator Technologies' A40 MEMS Accelerometer is a small, ultra-low noise, single axis accelerometer. This robust accel is designed to handle 500g shock and 5.74gRMS vibration in an EMI resistant housing.



Low Noise: $0.065 \text{ mg}/\sqrt{\text{Hz}}$



Excellent Bias Repeatability: 1.5 mg



Analog Output



Factory Calibrated: -40° C to 85° C



NON-ITAR

Low Noise. High Performance.



GLADIATOR
TECHNOLOGIES

A40 ACCELEROMETER

Performance			
Parameter	Accelerometer		
Range	± 6g	± 10g	± 15g
VRW	0.065mg/√Hz	0.002mg/√Hz	0.035mg/√Hz
BiasIn-Run	0.045mg	0.05mg	0.1mg
TemperatureSensitivity	<275ppm	<275ppm	<275ppm
Resolution/Threshold 1Hz	0.05mg	0.06mg	0.07mg
VibrationRectification	1mg/grms ²	0.15mg/grms ²	0.2mg/grms ²
SelfTest	0.15g±0.08		
ScaleFactorStability	<1,000ppm		
Alignment	<5mrad		
Shock	500g½sine 1msecpoweredon		
Vibration	5.74grms(20Hzto3kHz)		
OperatingTemp	-40° Cto+85° C		
Non-OperatingTemp	-55° Cto+100° C		
Environment			
Shock	500g½sine 1msecpoweredon		
Vibration	5.74grms(20Hzto3kHz)		
OperatingTemp	-40° Cto+85° C		
Non-OperatingTemp	-55° Cto+100° C		
Interface			
DataInterface	Analog2.5Vdc		
StartUpTime	<0.25s		
Bandwidth	140Hz		
TemperatureSensor	Internal+2.5Vdc		
Electrical			
InputVoltage	+4.75Vto+5.25VMax.Input(singlesided)		
CurrentConsumption	12mAMaximum		
Mechanical			
Mass	≤15grams		
Size	Metric:2.54diax1.84=9.32cmUS:1.0diax0.7=0.8in 33		

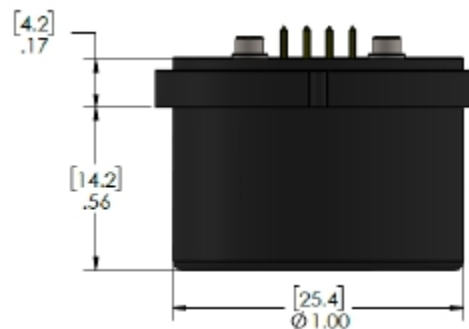


Ihr Ansprechpartner in
Deutschland, Österreich
und der Schweiz

Willburger System GmbH
Auf der Schuchen 11
82418 Seehausen am
Staffelsee

GERMANY

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



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

www.gladiatortechnologies.com
sales@gladiatortechnologies.com

www.gladiatortechnologies.com/a40

All performance parameters Iσ
Specification subject to change without notice

Rev. 03.14.19