

ER-QA-03E for industrial grade applications including: automotive test instrumentation, braking system deceleration, bridge and building sway and tilt monitoring, industrial and robotic control, land vehicle navigation, subway and high-speed train ride comfort control, and offshore drilling platform motion monitoring.

The integral electronics develops an acceleration-proportional output current providing both static and dynamic acceleration measurement. By use of customer supplied output load resistor, appropriately scaled for the acceleration range of the application, the output current can be converted into a voltage.



Features:

Tactical navigation grade performance

Analog output

Field-adjusting range

Size is smaller

Specifications:

S/No	Parameters	ER-QA-03E-01
1	Input range (g)	±30
2	Bias (mg)	<20
3	One-month composite repeatability (µg)	<150
4	Temperature sensitivity (µg/°C)	<100
5	Scale factor (mA/g)	2.2~2.9
6	One-month composite repeatability (ppm)	<150
7	Temperature sensitivity (ppm)	<200ppm
8	Axis misalignment (µrad)	<1500
9	Vibration rectification (µg/g2rms)	<100(50-500Hz)
10	Intrinsic noise (µg-rms)	<3000(0-10000Hz)
11	Environment	
12	Operating temperature range (°C)	-40~125
13	Shock (g)	100

14	Vibration peak sine (g)	25@30-500Hz
15	Resolution /threshold (μg)	< 10
16	Bandwidth (Hz)	> 300
17	Electrical	
18	Quiescent current per supply (mA)	< 20
19	Quiescent power (mW)@ $\pm 15\text{VDC}$	< 480
20	Input voltage	± 13 to ± 18
21	Physical	
22	Weight (grams)	30 max
23	Diameter below mounting surface (mm)	$\Phi 21.2$
24	Height-bottom to mounting surface (mm)	15
25	Case material	300 series stainless steel

Install dimension:

