

INNALABS® Accelerometer (MODEL NUMBER – AL-15)



INNALABS® Accelerometers (Al -15) is the single-axis linear compensative accelerometer with metallic sensing element.

MAIN APPLICATION – Inertial Navigation & Control Systems

FEATURES

- Excellent turn-on repeatability performance
- Environmentally rugged
- Analog output
- Field-adjustable range
- Three fastener precision mounting flange
- Internal temperature sensor for thermal compensation
- Dual built-in self-test

PERFORMANCE	
Input range [g]	± 60
Bias [mg]	< 4
Temperature sensitivity [µg/°C]	< 15
Scale factor [mV/g]	1.20 - 1.46
Temperature sensitivity [ppm/°C]	< 120
Axis misalignment [µrad]	< 1000
Vibration rectification [µg/g2rms]	< 10 (50-500 Hz)
	<35 (500-2000 Hz)
Intrinsic noise [µg-rms]	< 7 (0-10 Hz)
	<70 (10-500 Hz)
	<1500 (500-10,000 Hz)
ENVIRONMENT	
Operating Temperature Range [°C]	-55+95
Shock [G]	100
Vibration Peak Sine [G]	15 @ 20-2000 Hz
Resolution/Threshold [µG]	< 1
Bandwidth [Hz]	> 300
Thermal Modeling	Yes
ELECTRICAL	
Quiescent current per supply [mA]	< 16
Quiescent power [mW] @ ±15 VDC	<480
Electrical interface	x
Input voltage [VDC]	± 13 to ±28
PHYSICAL	
Weight [grams]	70 ± 3
Diameter below mounting surface [mm]	Ø 25
Height - bottom to mounting surface [mm]	12
Case material	Stainless Steel