

INNALABS® Accelerometer (MODEL NUMBER – AL-1)



INNALABS® Accelerometers (AL-1) is the single-axis linear compensative Accelerometer with metallic sensing element.

MAIN APPLICATIONS:

1. Industrial & Motion Control
2. Exploration & Laboratory Measurement

FEATURES

- High value
- Environmentally rugged
- Analog output
- Compact design
- Field-adjustable range
- Built-in test
- Optional thermal compensation

PERFORMANCE	
Input range [g]	± 30
Bias [mg]	< 8
Temperature sensitivity [µg/°c]	< 60
Scale factor [ma/g]	1.20 - 1.46
Temperature sensitivity [ppm/°c]	< 190
Axis misalignment [µrad]	< 7000
Vibration rectification [µg/g2rms]	< 60 (50-500 Hz)
	<200 (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]	200
Vibration Peak Sine [G]	20 @ 30-500 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]	25 ± 3
Diameter below mounting surface [mm]	Ø 25
Height - bottom to mounting surface [mm]	12
Case material	Stainless Steel