



H901 Accelerometer

Internally Amplified, Helicopter Accelerometer

Designed by Aircraft Engineers for Aircraft Engineers

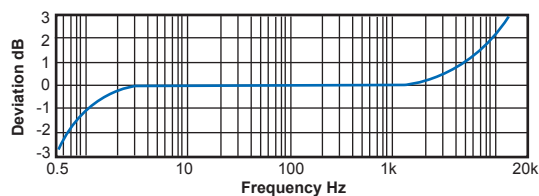
Description

Specifically designed for Helitune, the H901 accelerometer is the ideal general purpose device. It is perfectly suited for the collection of rotor balance data and vibration signatures in the range of 3Hz to 10KHz. It is small and light in weight, with an operating temperature up to 120 degrees Celsius. To ensure the correct operation of the accelerometer with Helitune equipment, it is necessary for annual calibration to be carried out by Helitune Authorised Test Centres.

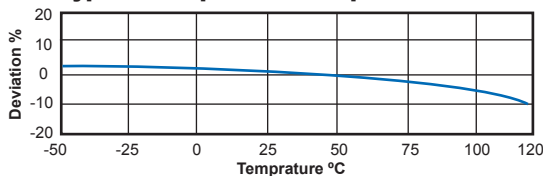
Please note, accelerometers should always be mounted to the machine using purpose designed bracketry and torque loaded to the correct value. Failure to do this could result in false values being measured.



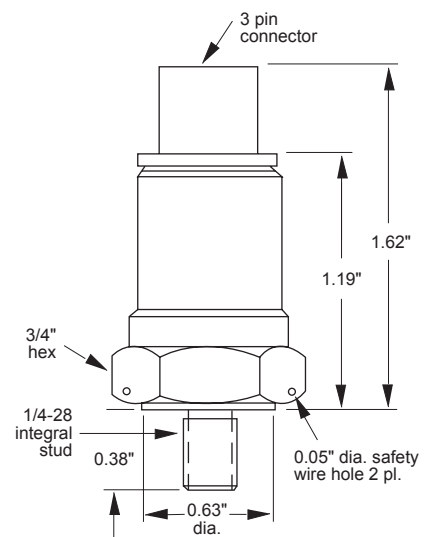
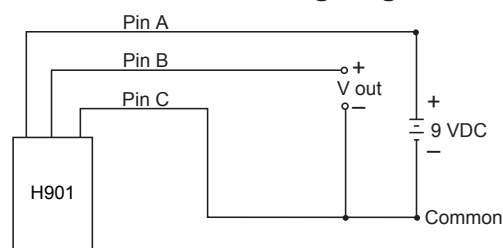
Typical Frequency Response



Typical Temperature Response



Calibration Powering Diagram



Dynamic

Sensitivity, $\pm 5\%$, 25°C	57 mV/g (as measured by Rotortuner systems)
Acceleration Range	62.5 g peak
Amplitude Nonlinearity	1%
Frequency Response:	$\pm 5\%$2.0 - 5,000 Hz $\pm 10\%$1.0 - 10,000 Hz ± 3 dB0.5 - 12,000 Hz
Resonance Frequency	>20 kHz
Transverse Sensitivity	5% of axial
Temperature Response	See graph

Electrical Specification

Power Requirement	9 VDC
Electrical Noise	Broadband, 2.5 Hz to 25 kHz75 μ g
equiv. g, nominal	Spectral 10 Hz7.0 μ g/ \sqrt Hz 100 Hz1.3 μ g/ \sqrt Hz 1000 Hz0.9 μ g/ \sqrt Hz
Output Impedance	2,400 Ω MAX
Bias Output Voltage	2.5 to 4.0 VDC
Grounding	Base isolated

Environmental

Temperature Range	-50 to 120°C
Vibration Limit	250 g peak
Shock Limit	1,000 g peak
Electromagnetic Sensitivity	40 μ g/gauss
Base Strain Sensitivity	0.002 g/ μ strain

Physical

Weight	54 grams
Case Material	Stainless steel
Mounting	1/4-28 x 0.38 integral stud
Output Connector	3 pin, MIL-C-26482



This document is not contractual. Helitune maintain a policy of continuous product development and improvement. This specification may change without notice.

Helitune is registered to BS EN ISO 9001 / AS9100

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