

H905 Accelerometer

High Frequency IEPE Shear Accelerometer

Designed by Aircraft Engineers for Aircraft Engineers

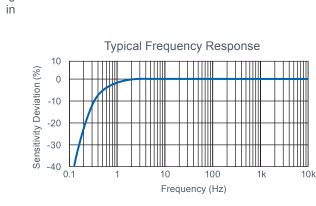
Description

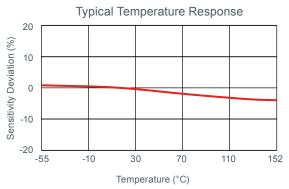
The H905 Accelerometer has been custom engineered for the collection of rotor balance & vibration data in the range of 1Hz to 10kHz. Its small size and weight make it the perfect accompaniment to Helitune's HT-VMU HUMS data collection unit.

Constructed from a corrosion-resistant stainless steel, it provides a hermetically-sealed solution that offers continuous performance at operating temperatures of up to 150°C.

- High Frequency Performance
- Excellent Linearity
- Electrically Isolated
- Safety Locking Wire Holes

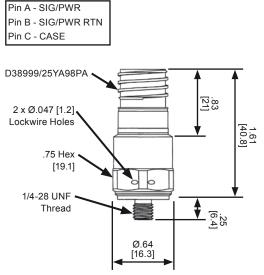
Note: Accelerometers should always be correctly mounted using purpose-designed mounting solutions. Failure to do this could result in inconsistencies with measured values.







Actual Size



Performance

Sensitivity, ±5%, [1]	25 mV/g
Acceleration Range	±200g peak (F.S. for ±5 Volts Output)
Amplitude Non-Linearity	±1%
Frequency Response	±5%0.5 - 10,000 Hz ±15%0.32 - 20,000 Hz
Resonance Frequency	>30 kHz
Transverse Sensitivity MAX	±5%
Temperature Response	See graph
Strain Sensitivity	0.002 g/µstrain

Electrical

Supply Current Range [2]	2-20mA
Compliance Voltage	+18V to +30V DC
Output Impedance, Typ	100 Ω
Bias Output Voltage	+7.5V to +9.5V DC
Electrical Isolation	Ground (Pin B) to case (Pin C) 10 GΩ, min

Environmental

Temperature Range	-55°C to 150°C	
Vibration MAX	±600g peak	
Shock MAX	±3,000g peak	
Sealing	Hermetic	

Physical

Weight	37 grams
Case Material	304L Stainless steel
Mounting	1/4-28 UNF stud
Output Connector	D38999/25YA98PA
Mating Connector	D38999/26KA98SA

- [1] Measure at 80Hz @ 1g pk
- [2] Do not apply power to this system without current limiting, 20 mA MAX. To do so will damage the IC charge amplifier.

To ensure the correct operation of accelerometers with Helitune equipment, it is necessary for annual calibration to be carried out by A Helitune Authorised Test Centre.



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Helitune's Quality Management System is certified to BS EN ISO9001:2008 and AS9100

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

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