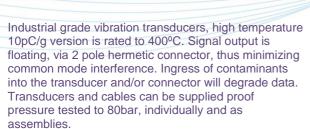


A/107/F/HT Industrial Piezoelectric Accelerometer

80gm 2 pole connector, lightweight version 10pC/g nom 400°C max (F/HT)

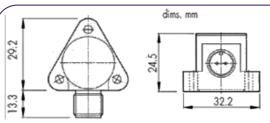


Pressure tested assemblies may be disconnected for ease of installation, subsequently replacing the sealing ring

between the connector shells. The HT is proof to 400°C Exposure and is therefore suitable for gas turbine bearing vibration monitoring, with the proviso that a low pass inline filter may be needed to minimize blade passing frequency modulation, which gives rise to spurious phantom low frequency signal generation.

High temperature operation of the HT may be subject to degradation due to increased pyro-electric charge generation, together with significant fall in insulation resistance. Instrumentation bandwidth should be constrained to the minimum needed for measurement integrity. A/107's comprise isolated welded hermetic case. Internal electrical connections are welded. Pressure and thermal cycle tests are recommended for hostile environment applications.

A/107/F, A/107/F/HT



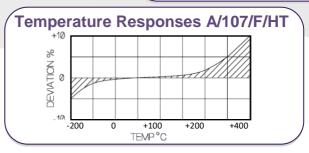


Typical Spectral Noise (100mV/g)

732 µg/√Hz 1Hz 82.1µg/√Hz 10Hz 16.2 µg/√Hz 100Hz 4.2 µg/√Hz 1kHz 3.1 µg/√Hz 10kHz

Options:

- Temperature calibration to 400°C (/HT)
- Proof pressure testing to 80bar
- A/107/F (100pC/g)
- A/107/FHT High temperature version (10pC/g)
- Voltage O/P version: A/1107/VF (100mV/g)



	Metric	Imperial
Charge Sensitivity	1.02 pC/(m/s ²)	10 pC/g nom.
Capacitance	150 / 400pF	
Resonant Frequency	18kHz	
Typical Frequency Response ±5%	1Hz – 3kHz	
±10%	0.7Hz – 4kHz	
Cross Axis Error	≤ 5%	
Temperature Range	-50 / +400 °C	-58 / +752°F
Charge Sensitivity Deviation re	-5% @ -50°C	-5% @ -58°F
20°C/68°F	+15% @ +400°C	+15% @ +752°F
Pyro-electric Output	0.2 g/°C	
Pyro-electric corner frequency	0.002Hz	
Base strain sensitivity/ strain	≤ 5%	
Max continuous accn. g sine	9,807m/s ²	1000g
Case material	Inconel	
Mounting	3 x 3.2mm holes, 25.4mm PCD	3 x 0.13in holes, 1inch PCD
Weight	80gm	2.82oz
Case seal	Welded, hermetic	
Size	29.2 x 29.2 x 24.5mm	1.15 x 1.15 x 0.96in
Connector	2 pole connector 7/16 UNS	2 pole connector 7/16 UNS

Please note: For information and reference only. Data should not be used as pass / fail criteria for calibration purposes

DJB Instruments (UK) Ltd Finchley Avenue,

Mildenhall, Suffolk IP28 7BG

Tel +44 (0)1638 712 288 Email sales@djbinstruments.com Web www.djbinstruments.com

A UK company with UK-based manufacturing, assembly and calibration in-house.

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