

A/52/FHT Industrial Piezoelectric Accelerometer

12pC/g nom. 400 °C Max temp 123gm



Industrial grade vibration transducers with integral hard-line cable, available in two temperature ratings, and suitable for long term monitoring of plant and machinery in harsh environments likely to be deleterious to less robust products, A/52F's have operated reliably, on plant subjected to continuous use for periods of up to 10 years. This is not fortuitous, but is borne of rigorous, application specific testing related to actual usage. We recommend proof pressure testing and elevated temperature hardening where appropriate to help build in the requisite level confidence.

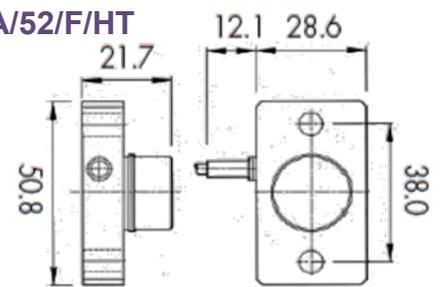
A/52's are built around the Konic shear sensing element, characterised by minimal response to physical inputs other than axial acceleration, and feature all welded construction, including integral hard-line cable terminations.

Options:

A/52/F, A/52/FHT

- Close tolerance output
- Temperature calibration to 400°C (/HT)
- Proof pressure testing to 100bar
- Cable length & terminating connector to be specified at point of order

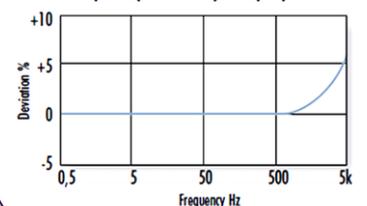
A/52/F/HT



	Metric	Imperial
Charge sensitivity nom.	1.22pC/(m/s ²)	12pC/g
Capacitance pF	300/900	300/900
Resonant Frequency KHz	12	12
Cross Axis error % max	5	5
Temperature Range	-50/ +400°C	-58/ +752°F
Charge sensitivity deviation re 20°C/68°F	+40% @ +400°C	+40% @ +752°F
Typical Frequency Response ±5% ±10%	1Hz – 3KHz 0.7Hz – 4KHz	
Base Strain Sensitivity g/μ strain	≤0.01	
Maximum shock	9,807m/s ²	1000g
Case Material	Inconel	Inconel
Connector	7/16" UNS or HT Microdot	7/16" UNS or HT Microdot .
Cable	Integral Hardline Cable	Integral Hardline Cable
Mounting	2 x 6.4mm Ø holes @ 38.1mm ctrs.	2 x 0.24in Ø holes @ 1.5in ctrs.
Weight exc.cable	123gm	4.34oz
Size	50.8 x 29.6 x 21.7mm	2 x 1.17 x 0.85in

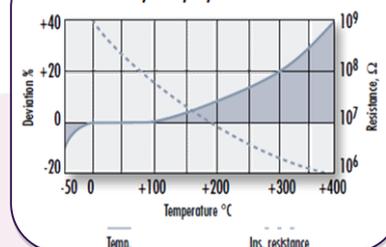
Typical Frequency Response

A/52/F & A/52/F/HT



Temperature Response

A/52/F/HT



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

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DJB Iss.4.2020



ISO 9001 – 00025363