



A/52/F, A/52/F/HT Industrial Piezoelectric Accelerometer

100pC/g nom.	260°C Max temp	100gm
12pC/g nom.	400°C Max temp	123gm

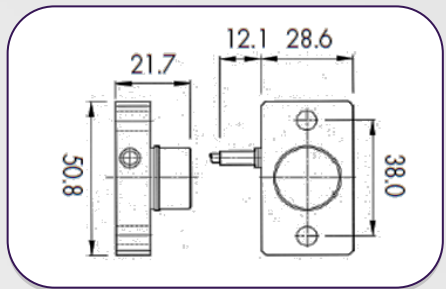
Industrial grade vibration transducers with integral hard-line cable, available in two temperature ratings, and suitable for long term monitoring of plant and machinery in harsh environments likely to be deleterious to less robust products, A/52F's have operated reliably, on plant subjected to continuous 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:

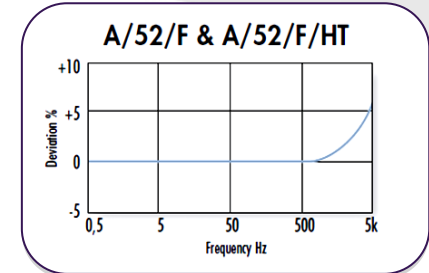
- Close tolerance output
- Temperature calibration to 400.C (/HT)
- Proof pressure testing to 100bar
- Cable/connector option shown in fig. 1

A/52/F



Typical Frequency Response

	Metric	Imperial
Charge sensitivity nom.	10.20pC/(m/s ²) A/52/F 1.22pC/(m/s ²) A/52/F/HT	100pC/g A/52/F 12pC/g A/52/F/HT
Capacitance pF	1400/1800 A/52/F 300/900 A/52/F/HT	1400/1800 A/52/F 300/900 A/52/F/HT
Resonant Frequency KHz	12	12
Cross Axis error % max	5	5
Temperature Range	-50/ +260°C A/52/F -50/ +400°C A/52/F/HT	-58/ +500°F (A/52/F) -58/ +752°F (A/52/F/HT)
Charge sensitivity deviation re 20°C/68°F	-5% @ -50°C +15% @ +260°C +40% @ +400°C A/52/F/HT	-5% @ -58°F +15% @ +500°F +40% @ +752°F A/52/F/HT
Frequency Response	2.5KHz – 3KHz	2.5KHz – 3KHz
Maximum Continuous 'g level	9,807m/s ²	1000g
Case Material	S/steel 303 S31 (A/52/F) Inconel (A/52/F/HT)	S/steel 303 S31 (A/52/F) Inconel (A/52/F/HT)
Connector	7/16 UNF HT Microdot	7/16 UNF 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	100gm A/52/F 123gm A/52/F/HT	3.53oz A/52/F 4.34oz A/52/F/HT
Size	50.8 x 29.6 x 21.7mm	2 x 1.17 x 0.85in



Temperature Response

