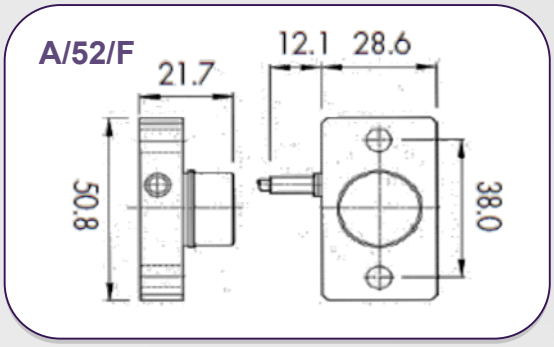
DJB Instruments
SENSING ENGINEERING INNOVATION

A/52/F
Industrial Piezoelectric Accelerometer

100pC/g nom. 260˚C Max temp 100gm

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.

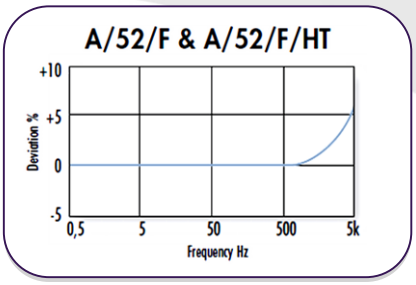


Options:

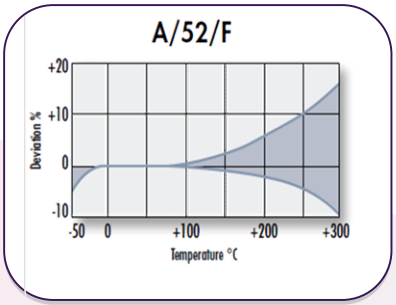
A/52/F, A/52/FHT
- Close tolerance output
- Temperature calibration to 400˚C (/HT)
- Proof pressure testing to 100bar
- Cable length & terminating connector to be specified at point of order

	Metric	Imperial
Charge sensitivity nom.	10.20pC/(m/s²)	100pC/g
Capacitance pF	1400/1800	1400/1800
Resonant Frequency KHz	12	12
Cross Axis error % max	5	5
Temperature Range	-50/ +260°C	-58/ +500°F
Charge sensitivity deviation re 20˚C/68°F	-5% @-50°C +15% @ +260°C	-5% @-58°F +15% @ +500°F
Typical Frequency Response ±5% ±10%	1Hz – 3kHz 0.7Hz – 4kHz	
Base Strain Sensitivity g/µ strain	≤0.01	
Maximum shock	9,807m/s²	1000g
Case Material	S/steel 303 S31	S/steel 303 S31
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	100gm	3.53oz
Size	50.8 x 29.6 x 21.7mm	2 x 1.17 x 0.85in

Typical Frequency Response



Temperature Response



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

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

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