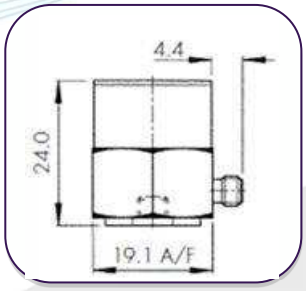
DJB Instruments
PRECISION IS OUR BUSINESS

A/29 Piezo Electric Accelerometer

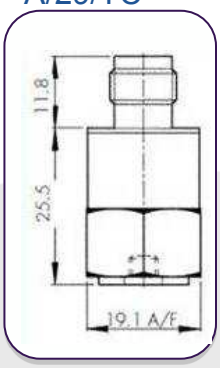
100pC/g nom. **46gm wt.** **250°C Max**

Close tolerance 100pC/g normalized output accelerometers with ultra low strain induced error. Piezo-electric materials convert mechanical loading, however induced, to electrical charge. The A/29 is specifically configured to minimize the effect of physical inputs other than acceleration, thus enhancing measurement integrity in situations where flexural strain of the transducer could give rise to significant errors. Accelerometers based around piezo-electric discs operating in d33 compression mode are particularly prone to this phenomenon, and typically have strain sensitivity 40dB greater than that of a strain A/29. High sensitivity Konic sensing element produces 100pC/g output from 46gm wt, transducer. Totally welded construction maximizes reliability.

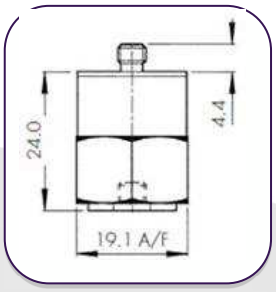
A/29



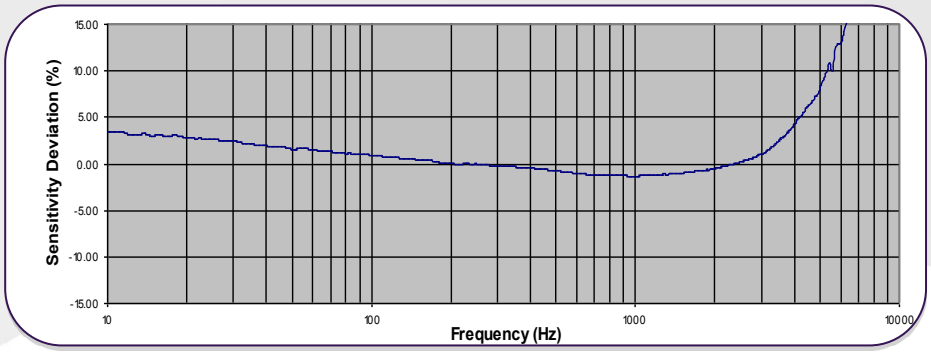
A/29/TC



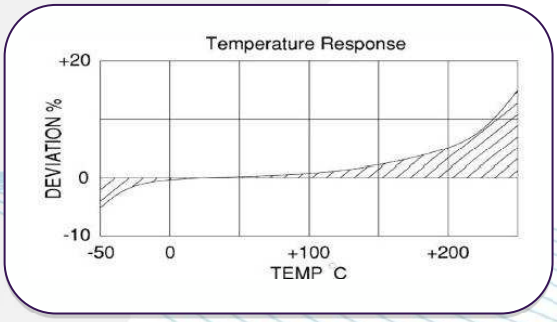
A/29/T



Typical Frequency Response



Temperature Response



Conversion Mode	Konic
Charge sensitivity pC/g	100 ±5%
Capacitance	1400/2000
Resonant Frequency KHz	15
Cross Axis error % max	5
Temperature Range °C	-50/ +250
Charge sensitivity deviation re 20 °C	-5% @ -50.C +15% @ +250.C
Frequency Range	1Hz- 5KHz
Maximum Continuous 'g level	1000
Case Material	s/steel 303 S31
Connector	Microdot skt. 10/32 UNFthd. (A/29, A/29/T) TNC skt. (A/29/TC)

Options

- Wideband temperature calibration, -50/+250.C
- Hermetic TNC connector version : ref A/29 TC
- Proof pressure testing to 60 bar for submersible applications (hermetic

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