



A/800 Micro g Piezoelectric Accelerometer

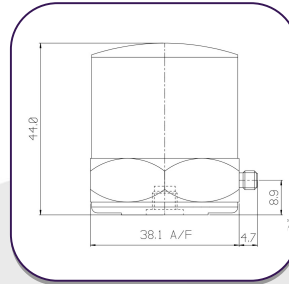
9nC/g nom 400gm 250°C max temp

The A/800 is the highest sensitivity accelerometer in the DJB range. Using multiple shear plates and large masses the 9000pC/g sensitivity makes it perfectly suited to seismic surveys and other micro g level measurement – virtual immunity to strain input side effects provides guarantee of low frequency, measurement integrity. System noise level of 10^{-2} pC is equivalent to 1mg. With bandwidth restricted to 1 kHz, noise floor should be significantly below this.

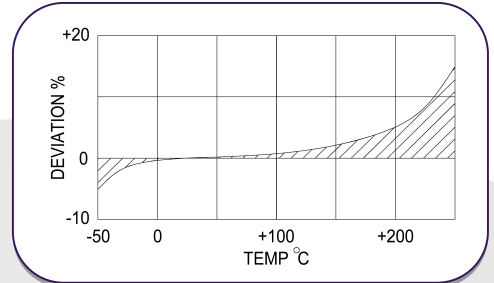
Typical applications include:

- Building vibration surveys
- Ground vibration monitoring during construction or earth moving
- Large structure vibration measurement
- Bridge vibration measurement
- Medical instrument installation surveys

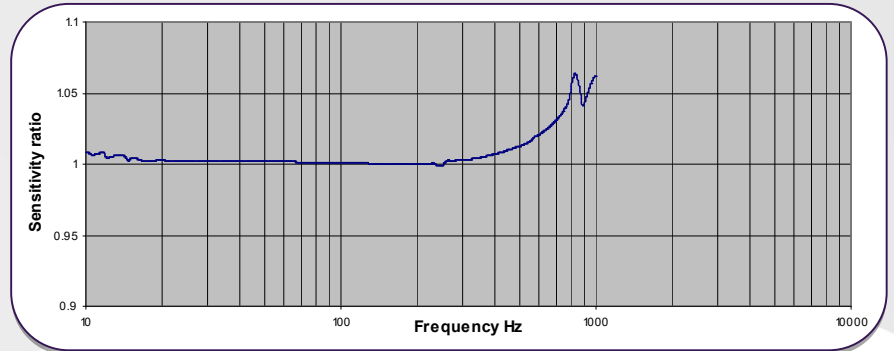
A/800



Temperature Response



Typical Frequency Response



Options:

A/800 – Side entry
A/800/T – Top entry
A/800/TC – Top entry, Hermetic TNC Connector

	Metric	Imperial
Charge sensitivity nom.	0.92nC/(m/s ²)	9nC/g
Resonant frequency	4 kHz	
Typical Frequency Response	±5%	0.2Hz – 2kHz
	±10%	0.1Hz – 3kHz
Cross axis error	≤5%	
Capacitance	19/31 nF	
Temperature range	-50/+250°C	-58/+482°F
Charge sensitivity deviation (20°C/68°F)	-5%@ -50°C +15%@ +250°C	-5%@ -58°F +15%@ +482°F
Base Strain Sensitivity	0.0001g/μ strain	
Max continuous accn. g sine	4903m/s ²	500g
Case material	s/steel 303 S31	
Mounting	Base tapped ¼ UNF x 4mm deep	Base tapped ¼ UNF x 0.16in deep
Weight	400gm	14.11oz
Case Seal	Welded	
Connector	Side entry 10/32 Microdot	
Size	38.1 (A/F) x 44mm	1.5 (A/F) x 1.73in

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

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

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

DJB Iss.3 2020



ISO 9001 – 00025363