

A/800/T/ TC Micro g Piezo-Electric Accelerometer

9nC/g nom

400gm wt

150°C max temp



Highest sensitivity multiple shear plate vibration transducers intended for micro g level measurement – virtual immunity to strain input side effects provides guarantee of low frequency measurement integrity. System noise level of 10-3pC is equivalent to 1µg. With bandwidth restricted to 2 kHz, 1 octave below resonance, noise floor should be significantly below this. Noise level vs. upper corner frequency for the CA/04/N charge amplifier, A/800 source and nominal 10Mtr, cable is shown in fig.1. Bear in mind that charge amplifier noise increases as a function of input capacitance – noise assessment should be made with the charge amplifier input correctly terminated. The transducer adds mass as it points of attachment to a structure, thus imposes a transparency constraint above which data corruption will be excessive.

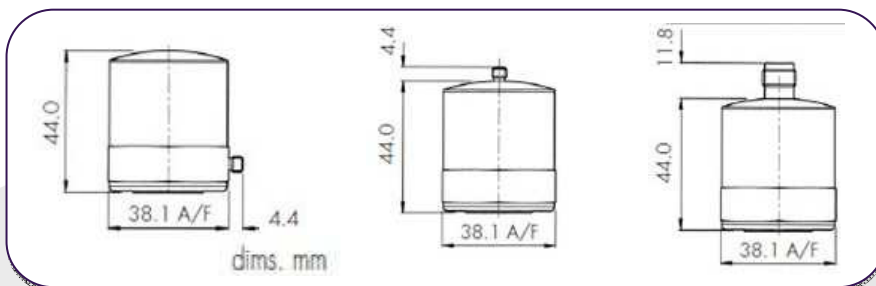
The single degree of freedom example

$\omega = \sqrt{\frac{1}{MT}}$ where MT represents the transducer mass, reduces ω by 3% for a transducer adding 10% to the structure mass. Application area of the A/800 is this limited in scope to low level vibration surveys in the civil engineering and heavy engineering domain.

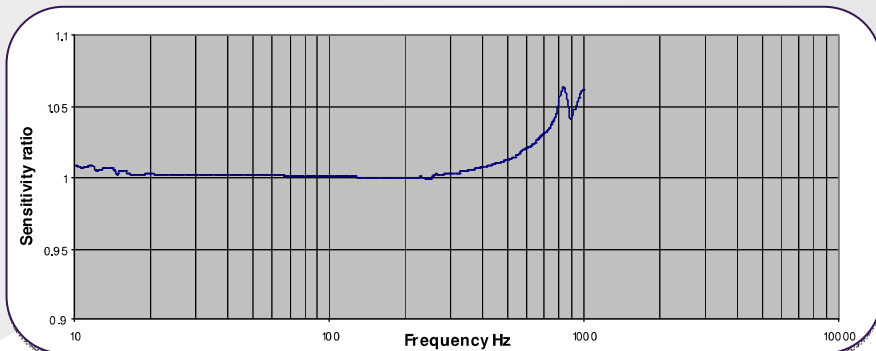
A/800

A/800/T

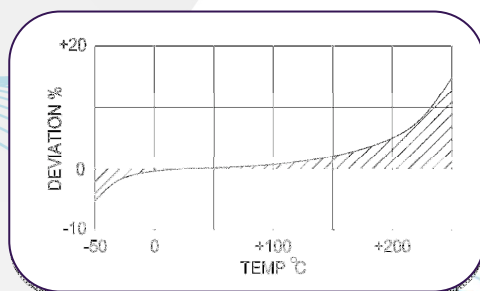
A/800/TC



Typical Frequency Response



Temperature Response



Options

- Hermetic TNC connector version : ref A/800, TC
- Wideband temperature calibration -50/+150°C

Conversion Mode

Konic

Charge sensitivity nC/g	7-11
Capacitance pF	26/31
Resonant frequency kHz	4
Cross axis error % max	5
Temperature range °C	-50/+150
Charge sensitivity deviation re 20 °C	-5% @ - 50 +15% @ +150
Frequency Range	
Max continuous accn. G sine	500
case material	s/steel 303 S31
mounting	Base tapped 1/4 UNF x 4mm deep
weight gm	400/ 407 (TC)
connector	Microdot skt, 10/32 UNF thd (A/800,T) TNC skt. (A/800, TC)
case seal	Welded, hermetic connector (TNC)

CMV Steck GmbH

Rheinstraße 92

Tel: + 49 (0) 7275 988 684 - 0

www.CMV-Steck.de

D-76870 Kandel

Fax: + 49 (0) 7275 988 684 - 9

e-mail: info@CMV-Steck.de



ISO 9001:2008