

A/800/T

A/800/T, A/800/T, A/800/TC Micro g Piezoelectric Accelerometer 9nC/g nom 400/407gm 250°C max temp









A/800/TC



Typical Frequency Response



	Metric	Imperial	
Charge sensitivity ±5%	0.92nC/(m/s ²)	9nC/g	
Capacitance nF	26/31	26/31	
Resonant frequency kHz	4	4	
Cross axis error % max	5	5	
Temperature range	-50/+250°C	-58/+482°F	
Charge sensitivity	-5%@ - 50°C	-5%@ - 58°F	
Frequency Response ±10%	10Hz — 1kHz	10Hz — 1kHz	
Max continuous accn. G sine	4,903m/s ²	500g	
Case material	s/steel 303 S31	s/steel 303 S31	
Mounting	Base tapped ¼ UNF x 4mm deep	Base tapped ¼ UNF x 0.16in deep	
Weight	400gm (A/800), (A/800/T) 407gm (A/800/TC)	14.11oz (A/800), (A/800/T) 14.36oz (A/800/TC)	
Connector	10-32 UNF Microdot (A/800T) TNC (A/800, TC)	10-32 UNF Microdot (A/800T) TNC (A/800, TC)	
Case Seal	Welded, hermetic connector (TNC)	Welded, hermetic connector (TNC)	
Size	38.1 (A/F) x 44mm	1.5 (A.F) x 1.73in	

vibration transducers intended for micro g level measurement – virtual immunity to strain input side effects provides guarantee of low frequency, measurement integrity. System nose level of 10⁻²pC is equivalent to 1mg. With bandwidth restricted to 1 kHz, noise floor should be significantly below this. 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 at its point of attachment to a structure, thus imposes a transparency constraint above which data corruption will be excessive.

Highest sensitivity multiple shear plate

The single degree of freedom example $\omega = \sqrt{\frac{s}{M} + MT}$ 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 thus limited in scope to low level vibration surveys in the civil engineering and heavy engineering domain.

Options:

•	Hermetic	TNC	conne	ctor	version	1:
	ref A/800, TC					
•	Wideband	tempe	rature	calib	ration	-
	50/+250°C	1	//			

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

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