

Tri-axial Micro-g accelerometer



Features

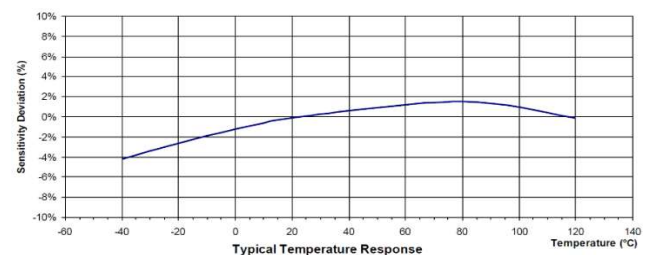
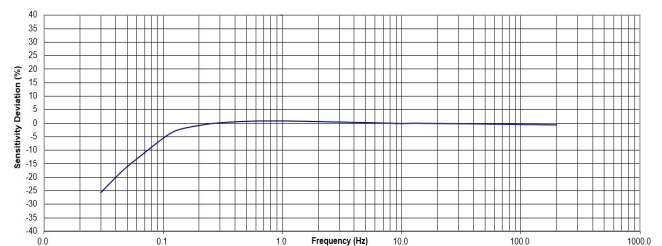
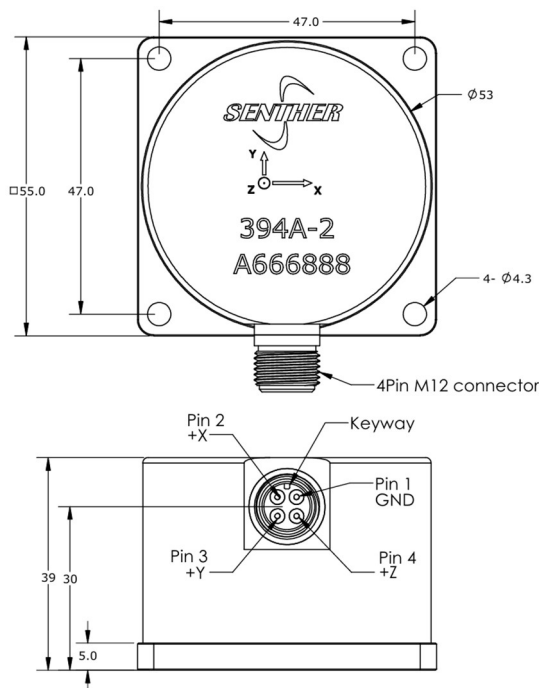
- Through corner holes mounting
- Low frequency response
- Tri-axial output
- High sensitivity
- Hermetic seal
- EMI / RFI shielded

Application

- Seismic monitoring
- Equipment vibration isolation
- High structure monitoring

Description

Model 394A is a tri-axial accelerometer for low-frequency micro-g vibration measurement. This model is specifically designed for large construction, precision equipment vibration isolation and seismic monitoring applications to detect signals of ultra-low frequency vibrations. The accelerometer incorporates an internal circuit with in a two-wire IEPE system which transmits its low impedance voltage output through the same cable that supplies the constant current power. Signal ground is internal shielded and isolated from the mounting base of the unit, thus guaranteeing excellent repeatability and long-term stability. The welded stainless-steel construction provides a hermetic housing. 394A offer $\varnothing 4.3$ corner through holes for screw mounting on the test object.



Specification

Typical at +24°C (+75°F), 24Vdc, 4 mA and 100Hz, unless otherwise stated.

Dash NO.	-2	
Dynamic Range	± 2	g, peak
Sensitivity $\pm 10\%$	2500	mV/g
Freq. Resp. $\pm 3\text{dB}$	0.02-200	Hz
Resonant Frequency	> 1	kHz
Transverse Sensitivity	< 5	%
Temp. Resp., -55 to +85°C	± 10	%
Non-Linearity	± 1	%FSO
Residual Noise	0.000005	g RMS
Shock Limit	100	g
Warm-up Time	< 60	second
Weight (Excluding Cable)	596	Gram

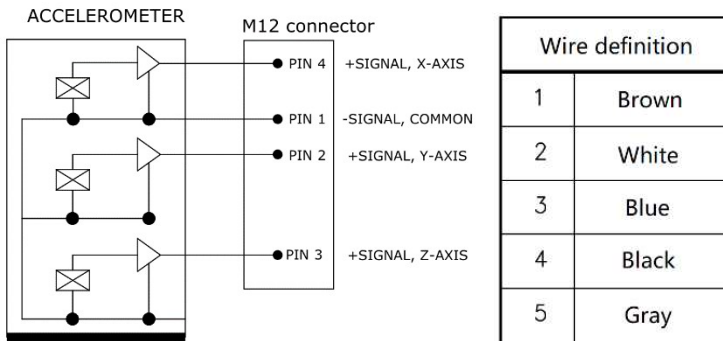
Specifications	Standard	Units
Bias Voltage	10 to 14	Vdc
Supply Voltage	18 to 30	Vdc
Supply Current	2 to 10	mA
Output Impedance	< 100	Ω
Case Insulation (@100Vdc)	> 100	M Ω
Operating Temperature	-55 to +85	°C
Humidity	Hermetically Sealed	
Case Material	Stainless Steel 316L	
Protection Grade	IP67	
Mounting Torque	2.2 (19.5)	N-m (lb-in)

Accessories

Calibration certificate included.

Part Number	Description	Availability
PM0138	M4*10 socket head cap screw	4pcs Included
18T-10	10 meter mating cable(PVC) with M12 connector	Optional
IN-03	3 channels IEPE signal conditioner	Optional
IN-91	Portable vibration analyzer	Optional
IN-3062	8 channels data acquisition system	Optional

Measurement configuration



Ordering information

394	A	-	2
Model	Output signal	-	Range
394	A=IEPE output	-	2=±2g

