

# AC298-M12A Series



VIBRATION ANALYSIS HARDWARE

Compact Multipurpose Accelerometer, Side Exit 4 Pin M12 Connector, M8x1.25 Captive Bolt, 100 mV/g, ±5%



## Product Features

High Performance in an Affordable, Side-Exit M12 Compact Sensor

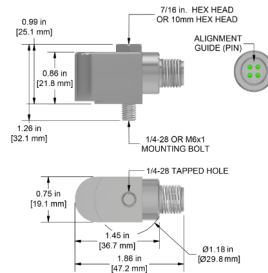
Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity, ± 5%
- ▶ ± 80g Dynamic Range
- ▶ 4 Pin M12 Connector

### AC298-M12A

4 Pin Connector

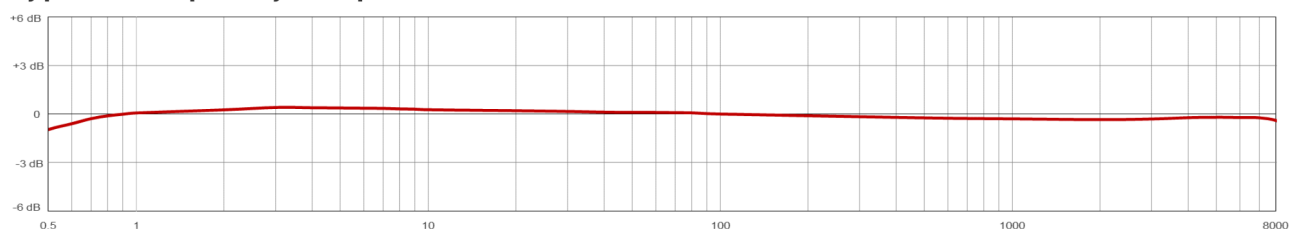
Connector Pin	Polarity
1	(+) Signal/Power
2	(-) Common
3	Not Used
4	Not Used



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±5%)		100 mV/g	<b>Environmental</b>		
Frequency Response (±3dB)	30-480,000 CPM	0.5-8000 Hz	Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±10%)	60-150,000 CPM	1,0-2500 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±5%)	600-120,000 CPM	10-2000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	60 m
Settling Time	<2 Seconds		SIL Rating		SIL 2
Voltage Source (IEPE)	18-30 VDC		<b>Physical</b>		
Constant Current Excitation	2-10 mA		Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz	8 µg/√Hz		Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz	4 µg/√Hz		Weight	3.4 oz	96 grams
Spectral Noise @ 1000 Hz	2 µg/√Hz		Case Material		316L Stainless Steel
Output Impedance	<100 ohm		Connector (Non-Integral)		4 Pin M12
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,380,000 CPM	23000 Hz
Case Isolation	>10 <sup>8</sup> ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	M8x1.25 Captive Bolt	
			Calibration Certificate		CA10

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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