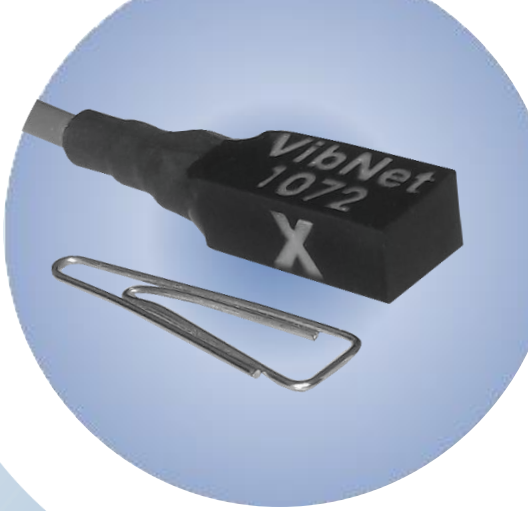
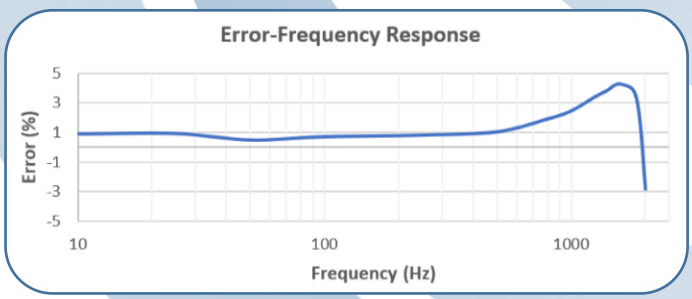
Dide Pardaz Saba

Miniature Accelerometers



VibNet 344/107x is the best choice for synchronous vibration measurement and OMA/ODS analysis of light weight structures. Integrating tri-axial MEMS accelerometer, data acquisition system and transmitter in a single board, makes it the smallest network-based vibration sensor all around the world.

Up to eight sensors (each of 3-axis) can be simultaneously sampled by the DPS-OMA-5 module. Since, it has an open source and free NI LabVIEW software, users can develop their own application software or export data in standard vibration data formats.



Specification	Unit	Model		
		VibNet 344	VibNet 1071	VibNet 1072
Measurement Directions	---	X , Y , Z		
Measurement Range	g	± 2 / 6	± 20	± 40
Minimum Frequency	Hz	0		
Maximum Frequency (-3dB)	Hz	1000	2000	2000
Sensitivity	Counts/g	1024	102.4	51.2
ADC Resolution	bits	12		
Noise Density	$\mu g/\sqrt{Hz}$	50	700	900
Non-Linearity	%	0.5	0.3	
Transverse Sensitivity	%	< 5		
Operating Temperature	°C	-20 ~ +70		
Storage Temperature	°C	-40 ~ +85		
Temperature Sensitivity	% / °C	± 0.01		
Output	---	RS485		
Output Protocol	---	DPS-VibNet		
Output Type	---	Raw Data		
Maximum Cable Length	m	10		
Maximum No. of nodes	---	16		
Synchronization Error	µsec	< 10		
Power Supply	VDC	5		
Power Consumption	mA	25		
Size	mm	19(L) × 12(W) × 7(H)		
Weight	gr	< 4		
Case Material	---	Epoxy Resin		
Mounting	---	Adhesive		

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