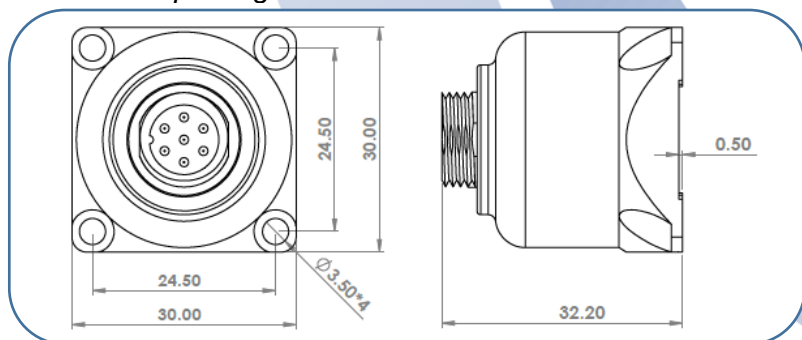
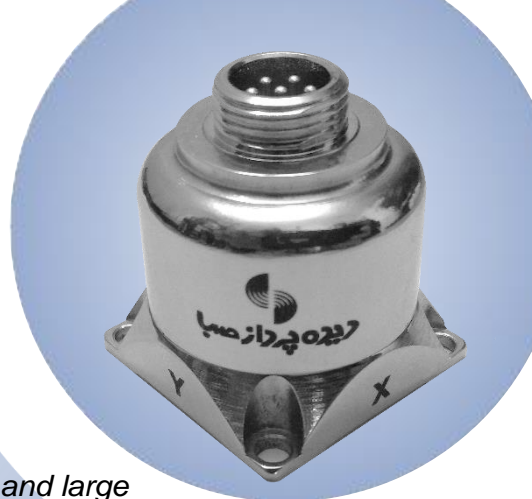


## Network Accelerometers

VibNet 354/356 is a network based acceleration transducer with high performance capabilities for both industrial and research applications.

Thanks to low noise and wide temperature tri-axial MEMS accelerometer, synchronous vibration measurement over a chained network topology is possible.

Special specifications such as long cable length, high output data rate and large number of nodes, make it the best choice for structural tests such as ODS and OMA (Operational Modal Analysis). Since, it has an open source and free NI LabVIEW software, users can develop their own application software or export signals in standard vibration data formats.



### Pin Assignment

- 1: GND
- 2: D +
- 3: D -
- 4: Do Not Connect
- 5: Do Not Connect
- 6: Do Not Connect
- 7: +10 ~ 30 VDC

Specification	Unit	Model		
		VibNet 354	VibNet 356	
Measurement Directions	---	X, Y, Z		
Measurement Range	g	± 2/4/8	± 10/20/40	
Minimum Frequency	Hz	0		
Maximum Frequency (-3dB)	Hz	100, 200, 500, 1000		
Output Data Rate	Hz	500, 1000, 2000, 4000		
Sensitivity (on lower range)	Counts/g	14563 (±2 g)	2913(±10 g)	
ADC Resolution	bits	16		
Noise Density (on lower range)	$\mu\text{g}/\sqrt{\text{Hz}}$	20	80	
Broadband Resolution (RMS Noise, on lower range)	$\mu\text{g}$	1 ~ 100 Hz	250	1000
		1 ~ 1000 Hz	800	3200
Mounted Resonance Frequency	Hz	> 5000		
Non-Linearity	%	0.1		
Transverse Sensitivity	%	< 5		
Operating Temperature	°C	-40 ~ +85		
Storage Temperature	°C	-50 ~ +100		
Temperature Sensitivity	% / °C	± 0.01		
Output	---	RS485		
Output Protocol	---	PROFIBUS / MODBUS / VibNet		
Output Type	---	Acceleration or velocity signal or overall value		
Processing Techniques	---	Bandpass filter, Integration, RMS, Peak, Pk-Pk		
Maximum Cable Length	m	100 (Extendable by repeater)		
Maximum No. of nodes	---	16 (Extendable on order)		
Synchronization Error	$\mu\text{sec}$	< 1		
Power Supply	VDC	10 ~ 30		
Power Consumption	mA @ 24 VDC	15		
Size	mm	30(L) × 30(W) × 33(H)		
Weight	gr	80		
Case Material	---	Stainless Steel		
Case Sealing	---	Epoxy Resin		
Mounting	---	4 × Ø3.5 mm		
IP Rating	---	IP 65		