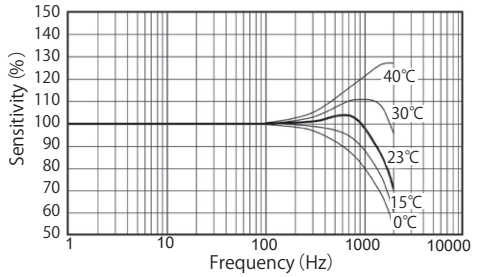
TML Acceleration Transducers electrically detect acceleration in all types of structures, including automobiles and machinery. Our acceleration transducers have sensing elements that use TML strain gauges made exclusively for transducers, and they can be used to take measurements based on DC levels.

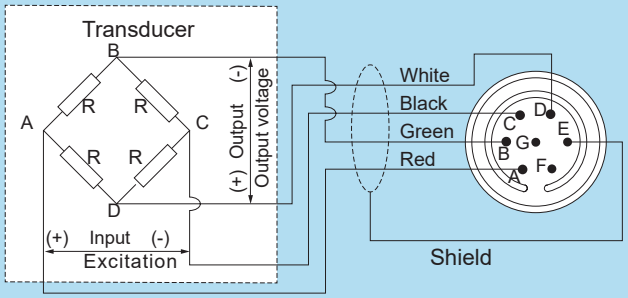
Example of Frequency characteristics



Acceleration transducer presents different frequency characteristics, output sensitivity vs. frequency, depending on temperature.

OUTPUT POLARITY WITH A LOAD

The measured value changes in positive (+) direction when acceleration is applied to the transducer in + direction marked on the transducer.



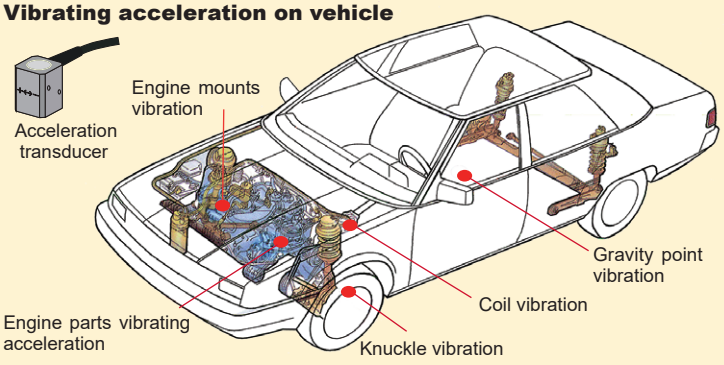
Not applicable to some products.

Acceleration transducer selection

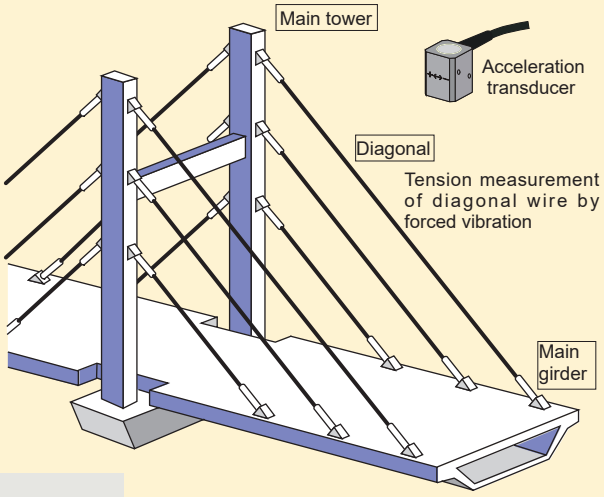
Utility		Type	Capacity (m/s²)										
			10	20	40	50	100	200	500	1000	2000	5000	10000
Micromechanical Vibration	Uni-axial model	**ARS-A**	●										
Smallest and lightest	Tri-axial model	**ARM-A-T**	100m/s² is for X- and Y-directions, 400m/s² is for Z-direction.										
Compact size	Uni-axial model	**ARF-A**	●	●		●	●	●	●				
	Tri-axial model	**ARF-A-T**		●		●	●	●	●				
Small size and high responsive in the range of high frequencies	Uni-axial model	**ARE-A**								●	●	●	●
	Tri-axial model	**ARE-A-T**								●	●	●	
Waterproof structure	Uni-axial model	**ARH-A**	●	●		●	●	●	●				
Small size and high responsive characteristics	Uni-axial model	**ARJ-A**				●	●	●	●	●	●		
	Bi-axial model	**ARJ-A-D**				●	●	●	●	●	●		
	Tri-axial model	**ARJ-A-T**				●	●	●	●	●	●		
Small High response High capacity	Uni-axial model	**ARGH-A**							●	●	●		
Small High response Low capacity	Uni-axial model	**ARGL-A**		●	●		●	●					
Small High response High capacity	Tri-axial model	**ARGH-A-T**							●	●			
Small High response Low capacity	Tri-axial model	**ARGL-A-T**		●	●		●	●					

HOW TO USE

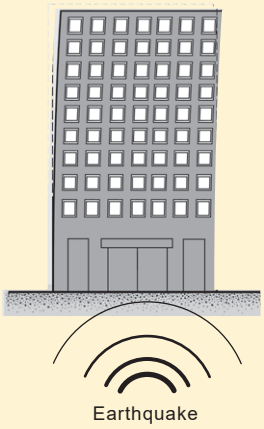
Vibrating acceleration on vehicle

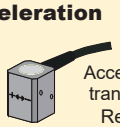


Cable force of cable-stayed bridge



Structure vibrating acceleration





Acceleration transducer
Real size 3D shaking structure