





	PERMANENTLY INSTALLED SINGLE AXIS SENSORS	PERMANENTLY INSTALLED TRIAXIAL SENSORS
		
<b>Installation Requirements</b>	Requires 3 sensors and 3 measurement locations for 3 measurement readings (X, Y, Z)	Requires 1 sensor for 3 measurement readings (X, Y, Z)
<b>Sensor Cost</b>	Lower cost	Higher cost
<b>Installation Costs</b>	Higher cost	Lower cost
<b>Installation Considerations</b>	Needs 3 mounting spaces and related mounting hardware for permanent installations	Needs 1 mounting space and related mounting hardware for permanent installations.
<b>Cabling Costs</b>	Higher cost Requires the purchase of 3 cordsets. For long cable runs, this can add greater expense.	Lower cost Only requires the purchase of 1 cordset. For longer cable runs, this can be a great cost saver compared to single axis sensors.
<b>Performance Considerations</b>	Less mass and stiffness which provides more data on high frequencies. More accurate readings on X axis and Y axis because of the placement of the single access accelerometer	More mass and stiffness which provides less data on high frequencies.

	PORTABLE MEASUREMENT SINGLE AXIS SENSORS	PORTABLE MEASUREMENT TRIAxIAL SENSORS
		
<b>Data Collection Requirements</b>	<p>Requires 1 sensor and 3 measurement locations for 3 measurement readings (X, Y, Z).</p> <p>Backup sensors are recommended in case sensors are dropped or damaged on the route.</p>	<p>Requires 1 sensors for 3 measurement readings (X, Y, Z).</p> <p>Backup sensors are recommended in case sensors are dropped or damaged on the route.</p>
<b>Sensor Cost</b>	Lower cost	Higher cost
<b>Installation Considerations</b>	<p>Needs 3 mounting spaces prepared for 3 measurement readings.</p> <p>For machines with measurement locations in hard-to-reach places, this poses potential human safety risks.</p>	<p>Needs 1 mounting space prepared for 3 measurement readings.</p> <p>For machines with measurement locations in hard-to-reach places, this provides a benefit to eliminate human safety risks.</p>
<b>Cabling Costs</b>	<p>Lower cost</p> <p>Backup cables are always recommended in case damage occurs on the route.</p>	<p>Higher cost</p> <p>Backup cables are always recommended in case damage occurs on the route.</p>
<b>Performance Considerations</b>	<p>Higher resonant frequency allows for wider frequency response range.</p> <p>More accurate readings on X axis and Y axis because of the placement of the single access accelerometer.</p>	<p>Lower resonant frequency allows for a limited frequency response range.</p>
<b>Collection Time</b>	Longer collection time due to having to take readings from 3 measurement locations.	Shorter collection time due to having all the readings taken from 1 measurement location.