VibroSmart: Ideal for smaller machinery with low channel densities

VibroSmart from the Vibro-Meter® product line allows operators to cost-effectively monitor and protect critical smaller machinery – with no compromise on performance. VibroSmart is a family of networkable devices developed to implement machinery protection system (MPS) and/or condition-monitoring system (CMS) solutions with a low-to-medium measurement channel density that can be installed wherever they are required.

Benefits

› Reduced installation costs
  As VibroSmart devices are mounted directly on, or near, the machine, operators save on installation and wiring costs by up to 30%. The use of standard Ethernet cables helps simplify installation.

› Versatile solution
  The VibroSmart VSV300 can process most types of signal – vibration, displacement and dynamic pressure. It can be configured to offer unique combinations of MPS and/or CMS functionality.

› As simple or as elaborate as you need
  VibroSmart’s modular structure is highly flexible and scalable. A single VibroSmart VSV300 can function as a stand-alone system or it can be combined with other VibroSmart devices to offer a networked monitoring system.

VibroSmart VS300, VSI010 and VSN010 devices with an APFxxx power supply

Total installation costs compared to rack-based monitoring systems

Trusted by the biggest names in the industry
50 years of sensor and systems expertise means our solutions are trusted by original equipment manufacturers (OEM) globally.
**VibroSmart® distributed monitoring system**

**VibroSmart devices**

- **VSV300 monitoring module**: two dynamic channels and one auxiliary channel, integrated relays and analogue outputs
- **VSI010 interface module**: two industry-standard fieldbus interfaces
- **VSN010 real-time Ethernet switch**: HSR ring network topology, communications gateway
- **VSA301 buffered output amplifier**: transmits VSV300 module’s buffered outputs over distances up to 500 m

**Accessories**

- APFxx +24 VDC power supplies, VSAxxx BNC cable assemblies and patch panels, and VSExxx enclosures

**VibroSight® software**

used for configuration, operation and management of VibroSight monitoring system

### Capabilities

<table>
<thead>
<tr>
<th>System communications</th>
<th>System availability</th>
<th>Module integration</th>
<th>Module flexibility</th>
<th>Dynamic channels per system (max.)</th>
<th>Dynamic channels per block (max.)</th>
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</thead>
<tbody>
<tr>
<td>1st</td>
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**System communications**: how many types of external communications interfaces are supported, including the features and functionality.

**System availability**: what features are included to improve system availability (i.e., redundancy and “hot-swapping”).

**Module integration**: how many modules are required to implement a solution.

**Module flexibility**: how configurable are the modules to fulfill multiple different applications.

### Certifications

- Designed and developed in compliance with the API 670 standard for machinery protection systems
- Certified for use in hazardous areas (potentially explosive atmospheres): ATEX Zone 2

### Applications

- Smaller rotating machines (<100 MW)
- Power generation turbines, motors, pumps and other balance-of-plant equipment

### Contact

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