Improved usability & organizational capabilities

By overcoming the limitations of batteries and existing wireless networks, products like our Machine Vibration Monitor built on top of Everactive's technology can be deployed at a much greater scale to focus on what matters—getting users the data they need to make an impact.

A New Paradigm of Wireless Sensing

- Data acquisition & management made easy so that you can realize your connected products vision.
- Everactive's patented batteryless systems offer flexible & extensible optionality to generate streams of rich, new, high-value data sets.
- Everactive removes the friction from managing dense data sets so that developers can focus on transforming that data into high-value insights.

Ann Arbor, MI
Charlottesville, VA
Santa Clara, CA

Contact Us
contact@everactive.com

More Information:
www.everactive.com
Machine Vibration Monitor

**SOLUTION BRIEF**

**UPGRADED 2.0 MODEL**

Keep your facilities teams safe and efficient!

Easy to use & configure: work smarter, not harder

Have real-time monitoring and insights 24/7

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**Batteryless Hardware**

*Powered entirely from harvested energy*

- Thermoelectric generator (TEG) – min. 15°F temperature differential between motor surface and ambient required
- Indoor solar – min. 66 Lux from incandescent, LED or fluorescent lights
- Outdoor solar – any sunlight condition

**Always-On Sensing Capabilities**

*Continuously collect data from your machinery*

- Monitored parameters:
  - Overall velocity, 9 highest FFT peaks and trending g-peaks up to 3.2KHz Fmax once a minute
  - Full-time wave form up to 3.2KHz Fmax once a day
  - Temperature – ambient + machine skin
  - VFD output
  - Eversensor stored power level
  - Ethernet signal strength
  - Data sampling at user-defined intervals, down to every 15-seconds (60-second default)

**Robust Wireless Connectivity**

*Transmit long-range through obstructions*

- Ethernet 2.0
  - Up to 800-ft. range between Eversensor & Evergateway (NLOS, in heavy-interference environment)
  - Standards-compliant sub-GHz low-power protocol
  - Over-the-air (OTA) configurability and upgrades

**Industrial Durability**

*Survive in a variety of harsh settings*

- IP66 Protection rated
- Class I, Division 2 certified

**Vibration Analysis Capabilities**

*Detects most machine failures including bearing defects*

- Unbalance
- Misalignment
- Looseness
- Bearing Defects
- Cavitation
- Range of 6Hz - 3.2KHz
- Resolution of 4096 lines

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Everactive builds completely self-powered sensing solutions that do not require batteries or maintenance, can be deployed nearly anywhere, and unlock new, actionable insights that deliver significant value.

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The Self-Powered IoT Platform

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