



SOLUTION BRIEF

Machine Health Monitoring



**Cost-effective
monitoring
for *all* motors**

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.

Everactive's self-powered Machine Health Monitoring (MHM) solution provides continuous, maintenance-free monitoring of motors and other rotating equipment. The Evercloud software displays trend data across a wide variety of parameters, alerting users of irregular behavior that requires attention.

**Save \$1,000s
per motor
every year**

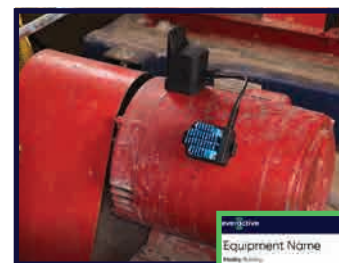
Self-Powered Sensors + Insights-as-a-Service

Lower total cost of ownership

- » No upfront capital expenditures
- » No tedious technology integrations
- » No added, ongoing battery maintenance

Maximize site-wide returns

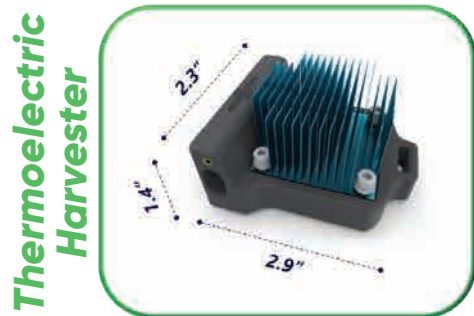
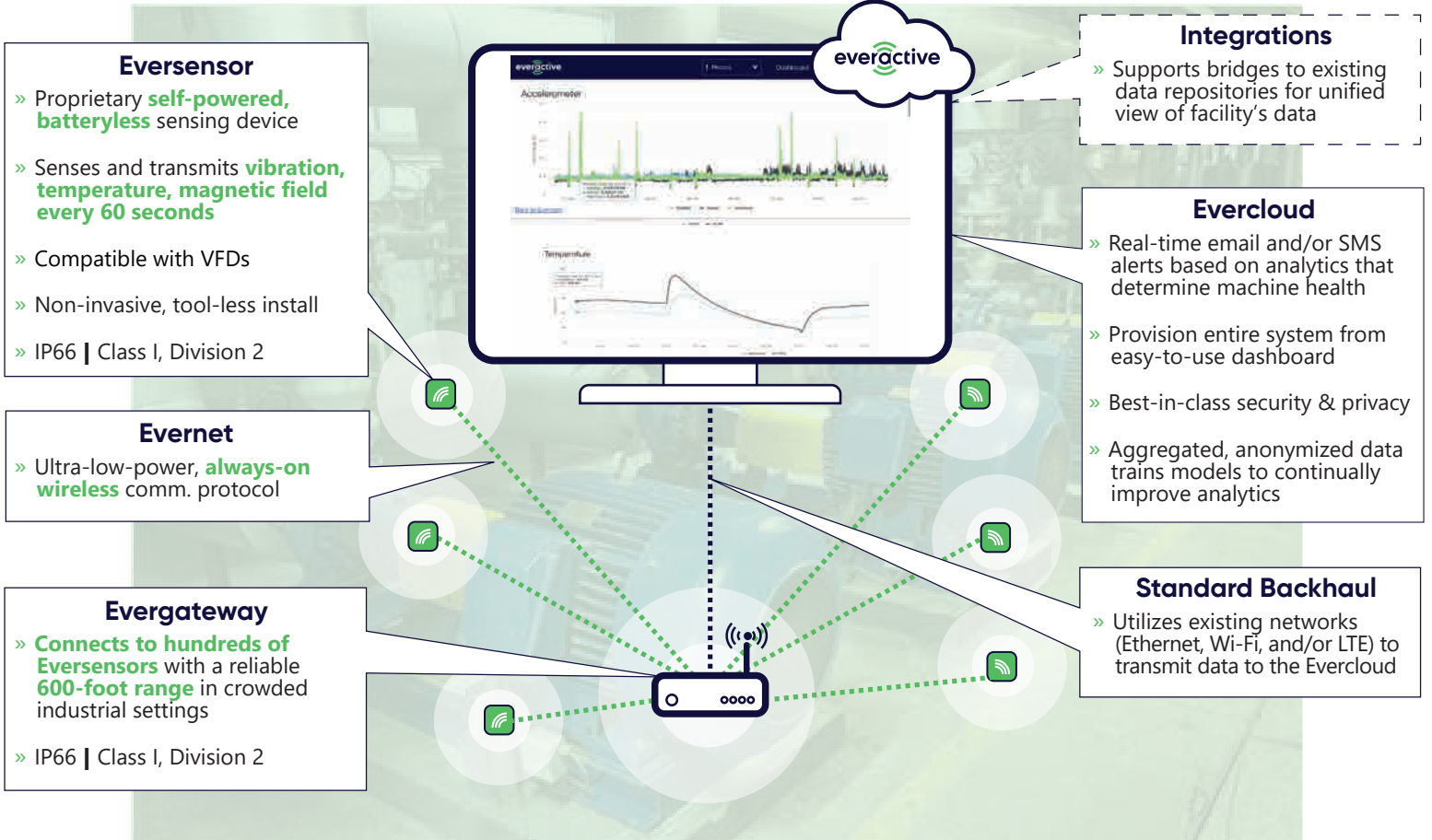
- » Intervene only when & where needed
- » Increase uptime & availability
- » Improve overall equipment effectiveness
- » Reduce electricity consumption
- » Extend motor life



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MHM System Schematic



MHM Features

<p>Batteryless Hardware</p>	<ul style="list-style-type: none"> » Thermoelectric generator - min. 15°F differential » Indoor solar - dimly lit areas » Outdoor solar - any sunlight condition » Store energy during intermittent harvesting (up to 48 hrs.)
<p>Always-On Monitoring</p>	<ul style="list-style-type: none"> » Data sampling every minute (default), down to 15 sec. » Triaxial acceleration & velocity » Overall vibration energy levels » Fundamental operating frequencies (6Hz - 3.2KHz) » Magnitudes of fundamental, harmonic, sideband freq. » Magnetic field fundamental & harmonic operating freq. » Fundamental operating frequency for each axis » Temperature - ambient & motor skin » Relative ambient humidity » Motor runtime & start / stop counter
<p>Cloud Software</p>	<ul style="list-style-type: none"> » Custom configurable threshold alerts on all parameters » Early warning notifications from in-house vibration experts » Notifications & alerts via Evercloud & email » Eversensor pairing & provisioning



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About Everactive

Everactive combines batteryless wireless sensors and cloud analytics to deliver end-to-end Industrial IoT solutions. The company's groundbreaking self-powered technology allows for low-cost, long-lived, and intelligent instrumentation of industrial assets that have previously been too expensive or dangerous to connect. Everactive's services provide high-value insights from newly generated and self-sustaining data streams.