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Petasense launches a new smart sensor to address the major challenges in widespread Industry 4.0 adoption

Petasense's Vibration Mote Model 3 (VM3)'s smart sensor enables variable speed equipment monitoring.

SAN JOSE, Calif., June 15, 2020 – Petasense (www.petasense.com), a Silicon Valley based venture-backed leader in Industrial IoT (IIoT), announced the launch of the patented Vibration Mote Model 3 (VM3). Petasense provides the Asset Reliability & Optimization (ARO) system (https://petasense.com/products/cloud/), an end-to-end system that includes plug-and-play wireless sensors and predictive analytics software that helps plants gain real time insights into asset health.

Monitor variable speed equipment
VM3 is a revolutionary sensor that combines speed detection with triaxial vibration and temperature, enabling continuous monitoring of variable speed assets. Variable speed, intermittently operating and spared assets have traditionally been difficult to monitor with predictive maintenance programs since the equipment could be operating under different conditions when measurements are taken. With VM3, users can trend readings under consistent operating conditions.

Smart measurements
Petasense's VM3 offers sophisticated event-based measurement, such as taking readings only when the asset is running at a specific speed. By enabling smart measurements, VM3 provides more consistent readings and battery life of up to five years.

"The VM3 is truly a step change in wireless sensors," commented Kuldeep Amarnath, CTO at Petasense. "The new smart measurement feature is unique in the industry. We are leveraging edge computing to collect sensor readings at the perfect time, taking synchronous measurements and more comprehensive readings based on the condition of the prior reading. It allows you to monitor speed, but also operating state, so you can take readings only when assets are

running.”

Flexible wireless deployment
Data from the VM3 is transmitted over standard WiFi to the ARO Cloud, where users can see at a glance what is happening with their assets and drill down for diagnostics with detailed analyst tools. VM3 also offers Bluetooth connectivity for greater deployment flexibility. This provides a way for companies to get started without wireless infrastructure, using instant measurements with an iPhone or iPad. Onboard storage minimizes data loss during connectivity interruptions. VM3 stores up to 50 high-resolution readings and transmits automatically when wireless connection is re-established, preventing data loss.

Improved battery life
VM3 has been designed from the ground-up to offer increased battery life. Battery replacement has been one of the major hurdles for wide-scale IIoT deployments. By taking readings only when assets are operating and taking advantage of onboard storage for less frequent transmission, companies can extend battery life.

Comprehensive Asset Reliability and Optimization
“Petasense is on a mission to eliminate unnecessary maintenance by simplifying the industrial internet of things,” said Petasense CEO, Dan Bradley. “With the launch of the VM3, we help accelerate deployment of Industry 4.0 and IIoT. All digital plant initiatives start with good data. By adding speed detection and smart measurements, we help to address some of the key challenges with IIoT deployment.”

Petasense is a Silicon Valley-based, venture-backed, IIoT company that was founded with a mission of democratizing and simplifying Industrial IoT. Clients span diverse industries like Oil & Gas, Pharmaceuticals, Power Generation, Mining and Facilities Services, and include industry leaders like Barrick Gold, APS, C&W Services, JLL, Exelon and Silicon Valley Power.

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