

Oceana Sensor

“Adding Wireless to Sensors”

Industrial Applications

Amidst pressures of rising energy prices, strict regulatory environments and global competition, operational teams are looking for competitive advantages wherever they can find them. Industrial plant managers are looking to OEMs to provide comprehensive monitoring and control solutions to meet these challenges.

Until now, wireless was used infrequently due to the reliability requirements in challenging industrial environments. Robust and self-healing, Oceana Sensor' WSeM™ wireless sensor networking products deliver > 99.9 % data reliability under the toughest of conditions, use 802.11 b/g technology to overcome RF interference, and preserve battery life (for as long as 10 years) by aggressive duty cycling and time-synchronization techniques.

Oceana Sensor Benefits its OEM Customers by Delivering:

- Robust, industrial-grade wireless sensor networking systems, tested and proven in harsh environments to deliver predictable and measurable network performance
- Ultra low power for reduced maintenance
- Tunable for tailoring the application to specific customer needs
- Cost-effective wire-free means to collect information from previously inaccessible areas

WSeM™-enabled OEM Solutions Benefit End Users by Providing:

- Increased competitive advantage by preventing problems before they occur
- Visibility into processes that help prevent unplanned shutdowns and increase efficiency while reducing the total cost of data acquisition
- Safer work environments by alerting appropriate personnel for immediate action
- Cost-effective monitoring solutions that collect information about processes or assets in areas that were previously impractical (or even impossible)

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APPLICATIONS MADE POSSIBLE BY WSEM™-ENABLED OEM SOLUTIONS

Field Equipment Maintenance & Calibration

In many industries, and especially manufacturing, equipment performance is critical. A rock-solid maintenance program is the key to reliability of field equipment. Partnering with Oceana Sensor, OEMs can offer monitoring solutions for remote locations that feature comprehensive outage planning and scheduling. A WSeM™-enabled solution allows end users to reduce downtime, increase equipment performance and lower maintenance costs.

Machine Health Monitoring

Oceana Sensor helps OEMs to provide solutions that allow full visibility into vital machines and processes (compressors, valves, pumps, assembly equipment) for rapid identification of problems that might otherwise disrupt production. A WSeM™-enabled OEM solution provides continuous collection of information such as pressure or motion, allowing end users to quickly diagnose conditions and make actionable recommendations. Operations teams can benefit from access to expanded monitoring information at greatly reduced costs, allowing them to prevent disruptions, achieve greater uptime results, and meet production goals.

Process Control

Wireless sensor networks can provide essential data for process control solutions. Plant managers utilize this information to control industrial processes, monitor production and direct activities without the need for human intervention. Oceana Sensor partners with process control solution providers to enable quick response to changing conditions by identifying significant variations in operational performance, determining root causes and making corrections that translate into higher quality products.

Cold Chain

A WSeM™-enabled OEM solution can deliver actionable information about environmental conditions in physically challenging situations such as a cold storage container or a large distribution facility. Wireless sensor networks collect information on temperature, humidity and carbon dioxide levels enabling end users to take preventative action. OEMs help their customers to avoid costly fines by providing monitoring solutions that collect evidence of regulatory compliance, and alert managers to equipment that may be outdated or operating below optimal levels.

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