



News

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Applications Backgrounder

Accsense, Inc.

Accsense, Inc., provider of Web-based remote monitoring solutions, offers the industry's first turnkey wireless sensor product. Right out of the box, the Accsense solution measures a wide range of physical properties such as temperature and makes real-time measurements available online from any computer or Web-enabled device.

The Accsense product line features wireless sensor Pods that measure ambient temperature, humidity, light, noise and vibration. Accsense sensor Pods are compatible with a range of standard external plug-in sensors and probes, including thermocouples, RTDs and thermistors. Their industry-standard 4-20ma, 0-5V, digital (contact closure) and pulse counter inputs can also connect to sensors that measure flow, pH, electrical current, pressure, acceleration, gas concentration, tank levels, proximity, wind speed, soil moisture – almost anything that can be measured. A single Pod can simultaneously measure up to nine different properties.

The Pods can also be directly connected to the outputs from Programmable Logic Controllers (PLC) for an easy way to provide real-time PLC/process status monitoring on the Web.

Accsense products can streamline processes across all industries. Applications for food processing plants, medical manufacturing facilities, labs of all kinds and agricultural entities can offer immediate benefits and cost-savings. The product is ideal for remotely monitoring equipment – for example, when harmful

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chemicals or extreme conditions prevent onsite monitoring or when a scientist or manager is at home or miles away from a lab, plant, field or facility. The Accsense solution may render strip chart recorders obsolete by enabling the digital reporting and archiving of the same information now recorded by pen and paper.

The Accsense system's cost savings are significant when considering the cost of installing and maintaining a wired sensor network (typically \$100/ft. or more), but the real value of the Accsense solution comes with the enhanced quality of decision-making that results from having more and better information about physical processes.

The complete Accsense product includes up to 16 wireless sensor Pods; a Pod Gateway for connecting the sensor network to the Internet; and an online account for monitoring, delivering alarms, storing and analyzing data. The sensor Pods automatically form a highly secure, self-healing mesh network with a wireless reach of up to 4,000 feet (3/4 mile).

Accsense solutions can be set up in five minutes to make nearly any physical measurement accessible online. Accsense products will put a vigilant watch on data in both permanent and portable installations for commercial and industrial customers across a broad spectrum of industries. Here are just a few examples where the Accsense solution shines.

Agribusiness

In agriculture, just as in any business, achieving top quality product and high yields for the lowest cost requires more data than ever. Accsense provides powerful, portable monitoring of entire fields effectively and efficiently. Whether in the field or from a remote location, measurements such as light intensity, soil moisture, soil salinity, temperature, wind speed, humidity and more can be viewed with ease and used to make informed decisions that save time and money. Measurements collected over time assist in developing trends and models to best distribute land and allocate resources. Accsense puts analytical power into the hands of those who know the land the best.

Labs

Research laboratories that discover deviating reaction parameters and failing lab equipment after the fact can lose millions of dollars in resources and materials. The Accsense solution is being deployed in pharmaceutical, biotech, nanotech

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and university laboratories providing critical research data collection and laboratory equipment monitoring. With the Accsense solution, alerts and continuous information are delivered in real time over the Internet, around the clock and around the world, enabling plant and lab managers to prevent deviations and breakdowns. Not only do Accsense sensor Pods house internal sensors, Pods can be equipped with multiple external sensors, reducing the danger of tangled wires and cords in the lab setting. Because Accsense sensor Pods are wireless, they are easily adaptable to any laboratory arrangement. Installation of the Accsense solution is so fast and simple, measurements can commence within minutes.

Industrial Process Monitoring

Efficiency is integral to successful industrial processes. Accsense delivers an easy new way to remotely obtain up-to-the-minute knowledge of processes and changes. The Accsense wireless solution is built to monitor a broad range of physical measurements and alert its users when dangerous deviations are underway, such as pressure increases, vibration, flow variance or change in temperature or humidity. Accsense offers global companies a Web-based monitoring system to access information securely around the world. By providing real-time measurement data never before available, the Accsense solution can reduce operational costs, increase productivity and up-time, and provide more efficient labor deployment – ultimately improving customer satisfaction and bottom-line profitability.

Condition-based Maintenance

For businesses to maintain a competitive edge, monitoring the operational efficiency of their equipment is priceless. Accsense offers a powerful tool to prevent downtime, unforeseen malfunctions and costly repairs that can wreak havoc on an entire business. Wireless sensing, retrofitted to existing in-service equipment, offers cost savings over routine or time-based preventative maintenance. Internal and external sensors such as vibration, acoustic levels, temperature, current draws and more, are condensed into one powerful tool, maximizing space and efficiency. Accsense keeps a vigilant eye on equipment, providing alerts that keep equipment working at peak efficiency.

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HVAC System Balancing

The Accsense wireless solution is a cost-effective solution for monitoring HVAC systems used in manufacturing, university, hotel, hospital and other commercial building operations. Disruption of these systems is not only costly, but can lead to slowed production, unhappy customers and complete shutdowns. Accsense products are easily adaptable to a broad range of HVAC processes and systems resulting in high efficiency and prevention of catastrophic events.

Environmental

Concern for the condition of lakes, rivers, streams, wetlands and other natural resources is growing in our global community. Preservation and prevention of further damage is an ever-increasing priority for communities and organizations that rely heavily on real-time data taken from the environment. The Accsense wireless solution is being deployed to monitor a wide range of analytical sensors measuring environmental status to ensure compliance with environment regulations. Automated alarms rapidly notify individuals and groups so that public health concerns are minimized and solved efficiently. Wireless sensing by Accsense, once only the future of sensor monitoring, can now report a real-time stream of data useful in caring for and protecting the environment.

About Accsense, Inc.

Headquartered in Santa Barbara, Calif., Accsense is the leading provider of wireless sensor solutions that are quick to deploy and easy to use. Accsense delivers affordable remote monitoring and data acquisition/logging sensor networks to customers including manufacturing plants, factories, labs, hospitals and greenhouses. For additional information, see <http://www.accsense.com>.

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