

Accurate, real-time sensor information for improved asset management

Wireless Sensor Networks

A unique combination of hardware and software for the collection and display of sensor data

SensorActive™ improves tactical management, operations and response to incidents that involve natural or man-made threats. As a system solution, SensorActive integrates remote monitoring with state-of-the-art communications and networking technologies to enable early warning and continual monitoring of assets and potential hazards. Now you can have real-time impact assessment of hydrological, environmental, and other data, critical for decision making.

Praxsoft's SensorActive™ System incorporates state of the art RFID, autonomous wireless devices with onboard sensors and ad hoc communications technologies. Each device or wireless sensor node can dynamically route or forward data through other nodes to its intended destination. The integration of both low power and long range RF for

communications allows reachback to the base station. At the base station data from various sensors is integrated and stored in an industry standard database then made accessible to the end user through easy-to-use Web applications.

System Architecture

Consolidation nodes form the hub of the system and are used to identify and track assets, provide analog and digital I/O, support the integration of various wired and wireless sensor devices and allow communications between nodes and other remote devices in an ad-hoc fashion. These devices can communicate with each other and discover the best path back to the base station automatically. The base station collects, processes, stores, and disseminates data, then displays that data within the appropriate end-user application or via the Web application. This architecture provides the means to augment legacy reporting networks and gives you the ability to use the system as a backbone for various sensor monitoring and asset management applications.

SensorActive Capabilities

- Real-time wireless mesh sensor network
- Simultaneous multi-site/multisensor monitoring and access
- Configurable automated alerting and notifications via e-mail, cell, or pager
- GIS-enabled user display for decision support and integration into various models
- Scalable hardware and software architecture
- Ability to view sensor data on user-defined backgrounds (Web-based)
- Device health and accuracy monitoring



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**For additional information
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Benefits

Provides a comprehensive system for integration, analysis, storage, and display of data from chemical, environmental, hydrological and associated sensors

Supports sensor integration/management and real-time data modeling

Enables performance targets to be set for infrastructure and unit processes to assess condition of assets, prioritize improvements, and drive efficiency and regulation compliance

Addresses the needs of physical infrastructure monitoring for business and service continuity

Increases efficiency and improves security through

- Proactive infrastructure monitoring
- Equipment management
- Improved response and remediation
- Historical data analysis

Applications

- Real-time sensor monitoring
- Asset location and management
- Life expectancy of equipment
- Proactive monitoring and health/well being of environmental resources



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