

EVIGIA SOLUTIONS

Life Cycle Management of Hazardous Materials

Evigia delivers wireless sensor and radio identification product solutions that provide sophisticated sensing, monitoring and communication capabilities for hazardous materials. The SensiTrack solution allows precise, continuous monitoring of nuclear and radioactive materials, hazardous waste products, corrosive or toxic chemicals, volatile bulk process ingredients, and other products/materials which are highly sensitive to handling and environmental conditions.

The SensiTrack solution includes hardware, software and incorporates a customizable array of sensors and wireless RFID communication to monitor:

- Transit/storage location
- Seal breakage
- Package impact
- Temperature
- Humidity
- Radiation level
- Presence of gases
- Certain biological elements

The Evigia SensiTrack solution lowers life cycle management costs, reduces inspection and manned surveillance time, and minimizes exposure for plant personnel while increasing storage and transport vessel lifespan.

Innovation in Integrated Wireless Sensing

- Industry-leading performance
- Energy efficient, long battery life
- Compact integrated sensors
- Proven in harshest environments
- Most reliable wireless/Active RFID
- Fully interoperable ISO18000-7
- Top price/performance available

"Evigia distinguishes itself from its competitors by developing wireless sensing, tracking, and identification products that have long battery life, are cost-efficient, and boast unrivaled performance and quality."

Frost & Sullivan, 2011

evigia

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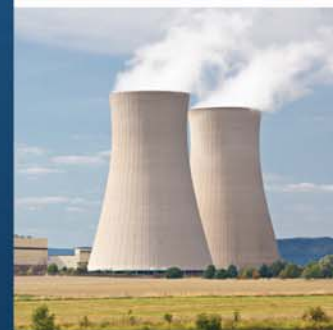
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Innovation in Integrated Wireless Sensing

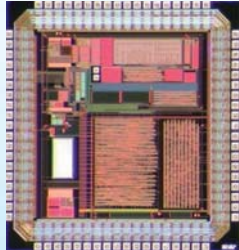


SensiTrack™
RFID Solution for Hazardous Materials

About Evigia

Evigia is the industry leader in integrating high precision micro-sensors, MEMS, wireless communications, active RFID and ASIC technologies to deliver wireless sensing and tracking products which dramatically improve the functionality, performance and cost-effectiveness of asset tracking, condition monitoring, storage and logistics operations.

Evigia delivers off-the-shelf sensing and tracking solutions as well as custom integrated designs meeting stringent safety, reliability, longevity and application-specific performance requirements for military, security and commercial users. Evigia solutions include software integration and mobile application capabilities, custom packaging, precision calibration and dedicated support for developers, integrators and end users.



The SensiTrack RFID solution incorporates patented, active RFID tags equipped with a variety of sensors, fixed and mobile RFID readers and a suite of software tools for location tracking, storage configuration and condition monitoring.

Evigia's EV3-ES1 Active RFID Sensor Tags incorporate e-seal technology which allow them to be attached directly to drum-type packages, cargo containers or palletized shipments. The battery-powered active-RFID tags combine a full-range of sensors, on-board memory and secure wireless communications (based on the ISO18000-7 international standard). The RFID tags offer real-time, continuous monitoring of tampering and seal breakage, physical shock, temperature/humidity, radiation level, and battery status as well as active identification, alarm and data logging functions.



SensiTrack: RFID Solution for Hazardous Materials

The SensiTrack™ software suite is based on the award-winning ARG-US RFID system, originally developed at Argonne National Laboratory and proven in pilot storage and transportation projects at multiple Department of Energy (DOE) sites. The software provides continuous, near-real-time tracking and monitoring of the status of packages and materials during transport, in-transit stops and storage/distribution operations. The system manages integration and configuration of multiple RFID tags and interrogators, incorporating secure mobile, desktop and web-based interfaces as well as wide-area communications via satellite and cellular-based systems. All configuration, status monitoring, data logging and alarm notifications are managed via the software, which is easily integrated with legacy software and back-end infrastructure.

