

Seismic sensors - Senstar offers a sub-terrain covert seismic security system designed to protect underground pipelines and other buried assets from terrorism, theft, vandalism and third-party damage. Sensing units, buried just below the ground's surface, transfer alarm messages to an operator via wireless RF, wired or a combination of both.

LIFE SAFETY PRODUCTS



Flare® is an RF technology based emergency notification system that can pinpoint a person's location within 6.1 m (20 ft.). Flare® distinguishes between indoor and outdoor spaces when a staff member's life may depend on rapid response. This product can display any individual's location, be it corridor or production yard.



Personal Alarm System (PAS) is an ultrasonic-based emergency notification system. The system is designed to locate a person inside a facility instantly so security personnel or a response center can send help quickly. These systems work extremely well in industrial safety and production areas where people at risk can be attended to in record time.



SECURITY MANAGEMENT SYSTEMS (SMS)

StarNET™ a Security Management System (SMS) supporting all Senstar sensors. Highly-customizable design allows user screens to be closely tailored to specific site requirements to maximize operator ease of use.



Network Manager is a software package that provides a common IP-based interface through which 3rd-party head-end SMS communicates to all Senstar sensors. The Network Manager also allows for network attachment of Senstar sensor-management tools.

Alarm Integration Module (AIM) software provides a quick-to-configure means to convert sensor alarms collected by the Senstar Network Manager into relay outputs for interfacing to a 3rd-party SMS. AIM also provides an option to display alarms so that it can serve as the primary alarm display for customers with a simple security management environment. Alternatively, AIM can serve as a secondary display within a more complex environment.

WHY PARTNER WITH SENSTAR TO SECURE YOUR SITE?



- ⊙ Experience – We have decades of experience in developing, manufacturing and installing products / services for thousands of prominent facilities in over 80 countries.
- ⊙ Portfolio – We offer the single largest selection of outdoor perimeter intrusion detection products and control systems in the world.
- ⊙ No loss of investment – Sensors are designed to easily integrate with other systems.
- ⊙ Budget conscious – We are committed to delivering a security solution that meets your needs and budget.
- ⊙ Customized solutions – Our company takes the time to understand your business before making recommendations on what will best address your security requirements.

REFERENCE SITES

The following list includes a sample of our customers in this market. Senstar products and systems are protecting the perimeters of nuclear facilities, power plants, gas / oil utilities, atomic power laboratories, and refineries throughout the world.

Nuclear

- ⊙ New York Power Authority, USA
- ⊙ Department of Energy, USA
- ⊙ Comisión Federal de Electricidad, Mexico
- ⊙ Nuclear Waste Storage, Switzerland
- ⊙ RWE, Germany
- ⊙ Instituto Peruano de Energia Nuclear (IPEN), Peru
- ⊙ Ontario Power Generation, Canada
- ⊙ Atomic Energy of Canada, Canada

Oil and Gas

- ⊙ Enbridge Gas, Canada
- ⊙ Encana, Canada
- ⊙ Argentinia Oil, Canada
- ⊙ ATCO, Canada
- ⊙ United Cities Gas Company, USA
- ⊙ British Petroleum, Columbia
- ⊙ Shell, Nigeria
- ⊙ Petrobras, Paraguay
- ⊙ Petrox, Chile

Utilities

- ⊙ Ontario Power Generation, Canada
- ⊙ Pickering Hydro, Canada
- ⊙ Nova Scotia Hydro, Canada
- ⊙ Kanata Hydro, Canada
- ⊙ British Columbia Hydro, Canada
- ⊙ Carolina Power & Light, USA

Chemical / Petrochemical

- ⊙ E.I. Dupont, USA



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Petrochemical, Nuclear, Energy and Utilities

Minimize your **RISK**
Maximize your **RESILIENCE**



Petrochemical facilities, oil and gas transmission systems, refineries, utility companies and nuclear plants are vulnerable targets for attack.

WILL A SITE SHUTDOWN CREATE A POTENTIAL HAZARD?

ARE YOU COMMITTED TO INHERENTLY SAFER TECHNOLOGY (IST) REGULATIONS?

DO YOU NEED TO PROTECT CHEMICALS OF INTEREST?

If you are responsible for protecting a site that is deemed critical, consider Senstar as a partner in your security strategy.

Although a Threat and Risk Assessment (TRA) is an excellent tool in determining the vulnerabilities and consequences of an attack, it is often based on history.

You need to plan for future events.

“In light of attacks on the petroleum supply chain. . .this call to target the oil industry is more than mere rhetoric. Given the rising global, and particularly Western, dependence on oil and natural gas resources, such a trend could bring significant economic disruption.”

Tamara Makarenko, Jane’s Intelligence Review special advisor on Systematic Transnational Crime

No two critical sites are alike and that is why Senstar works in partnership with every facility to understand and minimize the risk in order to maximize resilience to attack. Whether issues are related to environmental conditions, compliance with federal regulations, integration with an installed system infrastructure, new policy issues or the cost and benefit of employing such a system, we will address the need or unique requirement.



BEST SECURITY PRACTICES

The standard practices in security are to deter, delay, detect, assess and respond. A good security system clearly defines the space you want to protect and includes a deterrent (fence, wall or building) which delays an

intruder. It detects intrusions, provides assessment and calls for an appropriate and specific response.

Senstar develops, manufactures and deploys inherently safer technology to protect the perimeters at customer sites.



FENCE SENSORS

FlexPS™ is Senstar’s next generation fence-mounted sensor providing assured detection of any attempt to cut, climb or otherwise break through the fence. Advanced digital signal processing allows it to adapt to a wide variety of fence types. FlexPS builds upon Senstar’s wealth of experience with previous generation fence sensors to deliver a sensor that is simple to install, provides networking capability for remote alarm reporting and configuration, and is reliable in extreme environments.



IntelliFIBER™ is a fence-mounted sensor that uses the signals generated by the minute flexing of a proprietary fiber optic sensor cable to detect an intruder cutting, climbing, or lifting the fence fabric. It is particularly useful where there is a risk of EMI, RFI or lightning.



TAUT WIRE - Senstar’s taut wire perimeter intrusion detection system detects and prevents intrusions by unauthorized personnel. This barrier solution has no environmental limitations, a very high Probability of detection (Pd) and virtually no false or nuisance alarms. It can be installed on an existing fence or on posts installed for that purpose. Taut wire can also protect buildings or walled areas by mounting it on outrigger-type posts.

ABOVE GROUND VOLUMETRIC SENSORS



µltraWave™ is the latest all-digital bi-static microwave sensor from Senstar. Providing a detection zone up to 200m long, µltraWave uses advanced processing to optimally discriminate between

valid targets and environmental effects. Ten operating frequencies provide flexibility in site layout; an integrated sensor network allows for remote alarm reporting and configuration.



XField® is a terrain-following, volumetric sensor that creates an electrostatic field around a set of 4 or 8 parallel field and sense wires. The processor senses changes in the electrostatic field when intrusions between the wires take place. The wires can

be mounted on free standing poles, existing fences, walls or rooftops. XField is the sensor of choice at nuclear facilities throughout the world and is an excellent deterrent as well as detection system.

BURIED SENSORS

OmniTrax® is a fifth generation covert volumetric perimeter intrusion detection sensor. It generates an invisible electromagnetic radio-frequency detection field around buried sensor cables. The system identifies intruders moving through the field based on their mass and movement profile. It has a very high Probability of detection (Pd), low false alarm rate and low vulnerability to defeat. Key advantages include: ranging capability, integrated power and data and up to 800 m (1/2 mile) of coverage per processor.