

## High Impact Energy Efficiency Gain!

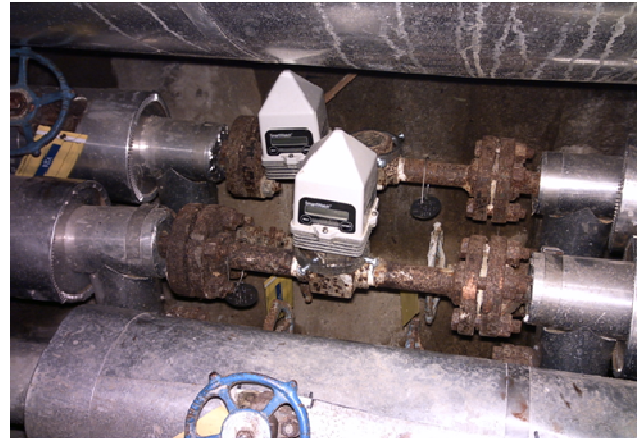
It is estimated that between 10 and 20% of total steam energy can be lost through malfunctioning steam traps. Continuous monitoring quickly pinpoints the source of loss, enabling you to achieve double digit efficiency gains.

Trap failures include “blowing” traps that waste energy and overstress condensate discharge/recovery systems to “plugged” traps that do not open and create poor steam quality and water hammer hazards.



## System Characteristics

- **Cost effective:** No wiring infrastructure required.
- **Convenient:** Monitors traps that are difficult to access.
- **Continuous monitoring:** 24/7 monitoring identifies events as they happen. Detect wearing traps before they fail.
- **Easy to install:** Non-invasive system, no penetration required, can be re-located as needed.
- **Reliable:** Frequency Hopping Spread Spectrum (FHSS) technology.
- **Robust:** All components can withstand harsh industrial environments, and are Intrinsically safe for use in all hazardous areas.



## Wireless Steam Trap Monitoring from AWS—it's the proven advantage.

The AWS wireless steam trap monitoring solution is an easy-to-implement, turnkey approach to monitoring that can plug into your current system. It allows you to watch process and trap conditions, 24/7, without incurring the expense of buying, running and worrying about wire.

This is a ready-to-go, robust solution that includes everything you need—battery-operated field units with integrated sensors and transceivers; a five-year battery life; a base radio transceiver, capable of communicating with up to 100 trap monitors; user-selectable alert options readily interfaced with existing systems. AWS software provides tools for remote configuration and network management. The monitors are rated for continuous operation in ambient temperature up to 185°F. All devices are certified by the FCC, for license-free use.





## Base Radio Gateways

FHSS ISM band Transceiver communicates with up to 100 field units. Output options – RS485, dual channel, Modbus slave and various protocol converters; RS-232, TCP, and optional digital switches.

Performs data collection from field units, enables remote configuration of field units and interface to existing systems.

Automatic diagnostic and monitoring of the RF signal with all trap monitors. Multiple base radios can be used to provide redundancy and increase the total number of field units.



## Trap Monitor Units

Trap monitor field units consist of sensors, signal conditioning and communication elements that are packaged with antenna and mounting accessories appropriate for all types of traps and locations.

Frequency and protocol delivers superior communication range and battery life: battery – 3.6V lithium size C, 5 years in normal monitoring configuration, field changeable. Optional D size doubles battery life.

Performs self-diagnostics, alerting user of potential hardware failures and low battery status

NEMA 4X weather-proof

Housing options available for all types of operating environments



## Data Management and Alerts

Diagnostic and performance monitoring of individual sensors, radios, batteries and steam trap status. Remote management of the entire wireless sensor network. Offsite data management and alert services available.

Access Control to provide users with various levels of read/write authority. Configuration management password protected for tamper proof control.

Data logging with export feature to integrate with existing data bases and reporting systems suitable for temporary data acquisition applications.