



# Escaping steam means lost energy and lost profits

*5-10% of total energy cost are typically lost through leaking steam traps*

**-U.S. Department of Energy**

You may know intuitively that leaking or blocked steam traps in your plant are resulting in lost energy. But do you know how much money in your plant is going up in steam?

According to the U.S. Department of Energy, approximately 20% of steam leaving a central boiler plant is lost via leaking traps. That can equate to millions of dollars on your energy bill.

Your once-a-year steam trap inspections give you some protection, but they don't provide you with visibility to the real-time status of traps, giving you a false sense of assurance. A steam trap that fails the day after an inspection could leak for nearly a full year, wasting energy and potentially putting your process at risk of water hammer.

**What if you could have constant visibility to all your critical steam traps, in a system that is easy to install and maintain?**

## LIMITED VISIBILITY TO STEAM TRAP CONDITIONS

"We survey our steam traps once a year, which helps a little. But regular manual rounds to check traps just isn't practical. And there still is a delay between the trap failure and when we find it, so I'm still losing energy."

## LACK OF INFORMATION FOR DECISION MAKING

"Even if we know there's a problem with a steam trap, we don't know how serious it is or what's wrong with the trap."

## INSTALLING NEW SYSTEMS IS TIME CONSUMING, EXPENSIVE AND RISKY

"I don't have time to put in new instrumentation, especially if I have to cut into pipes and train my staff on new procedures. And how do I know it's even going to work?"

Emerson is helping process plants significantly reduce their energy costs with automated steam trap monitoring.

With the Rosemount 708 Wireless Acoustic Transmitter, you'll have instant visibility to all your critical steam traps through a non-intrusive, wireless monitoring system.

Backed by Emerson's proven experience in Smart Wireless field instrumentation, the Rosemount 708 will enable you to effectively and easily capture significant energy cost savings.



## ROSEMOUNT 708 WIRELESS ACOUSTIC TRANSMITTER

### SAVE 10-20% IN FUEL COSTS

Steam production is a significant operating expense for process plants, and about 20% of the steam leaving a boiler is lost through failing steam traps.

The Rosemount 708 Wireless Acoustic Transmitter provides constant visibility to and accurate measurement of all your critical steam traps without the effort of a manual inspection, enabling you to dramatically reduce steam trap failures and save 10-20% annually in fuel costs.

### REAL-TIME VISIBILITY TO CRITICAL STEAM TRAPS

Real-time alerts tell you which traps are failing and how they are failing, so you can make informed decisions on how to act. The Rosemount 708 provides you with real-time actionable information on trap state and identifies if the trap is normal, cold (stuck closed) or blown-through (stuck open). This proactive solution focuses your attention where it matters most, helping you prioritize your efforts. And with the Emerson Smart Wireless system, you gain visibility to all of your critical traps, even in the most hard-to-reach locations.

[www.rosemount.com/stopsteamloss](http://www.rosemount.com/stopsteamloss)

### INSTALL AND MAINTAIN WITH EASE

Installing new instrumentation can be time consuming and tricky, especially if it involves cutting into pipes and training your staff on unfamiliar procedures. With the Rosemount 708, you won't need to worry about adding complexity or workload. The system is easy, fast and flexible to install; no training required. The devices are non-intrusive and mounted using supplied stainless steel mounting bands, so you won't need to cut into your pipes. The small, lightweight engineered polymer housing means that you can place it anywhere, even in tight spots, locations with harsh environmental conditions or hazardous areas.

### Proven Technology That's Easy To Use

Selecting the right supplier of wireless field instrumentation is critical to the success of your steam trap monitoring implementation. In addition to evaluating features and functions, you want to be confident that the technology is going to install and work as promised. Choosing unproven technology could result in setbacks and even greater risks. Emerson's experience in wireless is unmatched in the industry. From small start-up implementations to sites with thousands of devices, Emerson has helped customers in every industry succeed with wireless technology.

### Rosemount 708

- Engineered Polymer housing enabling an internal antenna
- Quickly connect to any installation
  - Directly mount without cutting or changing pipe configurations
  - Includes an intrinsically safe power module that lasts up to ten years
- FM and CSA Class 1 Div 1 approvals
- SteamLogic software included with each device
  - Identifies if the trap is normal, stuck closed (cold), or stuck open (blow thru)



### Real Customers, Real Results

*"We found 22% of our traps needed to be replaced during our last preventative maintenance check. By installing wireless acoustic transmitters the plant will prevent steam loss with early detection of steam trap failure. Not only will this minimize energy loss, but it will free up maintenance to focus their time and attention on things that need to be fixed, to further improve our productivity."*

**Richard Luneack**  
Fluor Enterprises Project Engineer at General Mills

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