

# ONGUARD™ *i* CONTROLLER WITH LEAK ALERT

Advanced chemical feed and control system  
for recovery boilers



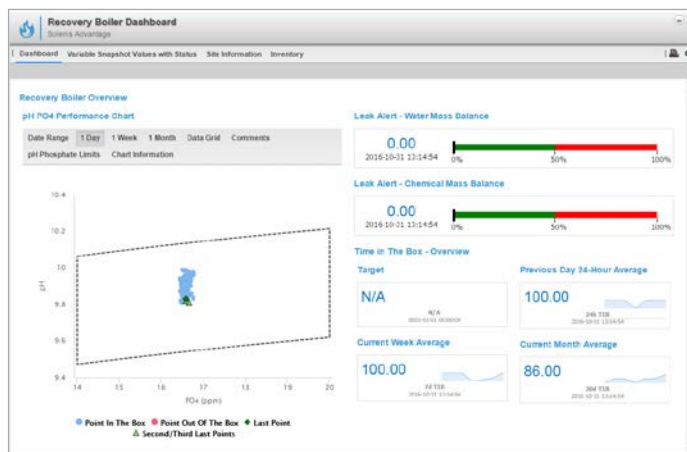
- **Assure** — Maintain peak production with 24/7 monitoring and surveillance
- **Verify** — Validate performance and value from your specialty chemical applications
- **Protect** — Safeguard capital assets while optimizing resources

# Leak Indication using OnGuard *i* Controller with Leak Alert

Early detection of feedwater and boiler water leaks is critical for recovery boiler managers and operators to avoid the potential threats posed by water tube water leaks into recovery furnaces.

Automated mass balance indicators, especially when refined to optimize performance, can provide early indication of boiler tube water leaks. However, challenges exist with using mass balances for leak detection due to the 'noise' in the input signals, largely caused by process variation leading to missed leaks and false alarms.

Solenis Leak Alert water mass balance coupled with chemical mass balance leak indicators use innovative, proprietary software that is self-calibrating regardless of system noise. This software uses data filters to enhance sensitivity while limiting the false alarms that can undermine the credibility and reliability of other leak detection systems.



Recovery boiler dashboard combines “In the Box” control and leak detection status in one screen

## Technology Overview

Leak Alert software is a statistical tool designed to detect unusual mass balances around a boiler and is often employed with the boiler pH/phosphate control logic used for boilers operating on a congruent phosphate program. Leak Alert is valuable in providing indications of system events such as flow meter problems, open drain valves and relief valves, chemical feed line leaks, and excessive manual blowdown. Leak Alert’s key benefit is the early warning or confirmation of these events.

## Features and Benefits

FEATURE	BENEFIT
Proprietary software	<ul style="list-style-type: none"> <li>Enhanced sensitivity for early warning</li> <li>Minimized false alarms for operator confidence</li> <li>Hands-off operation</li> </ul>
Both Chemical Mass Balance and Water Mass Balance	<ul style="list-style-type: none"> <li>Redundancy increases sensitivity and accuracy while minimizing false alarms better accuracy; ESP avoidance</li> </ul>
Integration with OnGuard™ controllers for automated chemical dosage control	<ul style="list-style-type: none"> <li>Enhanced sensitivity in the chemical mass balance due to low variability.</li> <li>Minimized corrosion and deposition</li> </ul>
Integration with OnGuard OnLine™ data management service	<ul style="list-style-type: none"> <li>24/7 monitoring and surveillance of water systems</li> </ul>

## The Solenis Difference

No other water treatment supplier offers a technology for indicating boiler tube leaks with the sophistication of the OnGuard *i* controller. The OnGuard *i* controller with Leak Alert can provide early warning of recovery boiler tube leaks, enabling rapid response and corrective action before the impact is seen in plant operating equipment.

Most important, all of these benefits come backed by a team of dedicated, knowledgeable Solenis sales professionals and application experts.

## More Information

To learn more, contact your technical sales representative or visit us online.

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