

Optimize Heater Treater Operation with Wireless Monitoring



Increase Heater Treater Efficiency, Improve Production Data and Reduce HSE Risk

Preventing and responding quickly to upsets is critical to heater treater efficiency and safety. Emerson's wireless solutions and configurable applications for heater treaters enable greater control and more effective diagnoses of issues, providing greater insight into equipment health and process integrity for fewer production allocation errors, more effective maintenance and reduced HSE risks.

Reliable Data Means More Control

Reliable measurement helps optimize heater treater productivity, with automated controls to improve operating efficiency, lower costs, and reduce the time and risk associated with onsite visits.

Identify and Prevent Integrity Issues

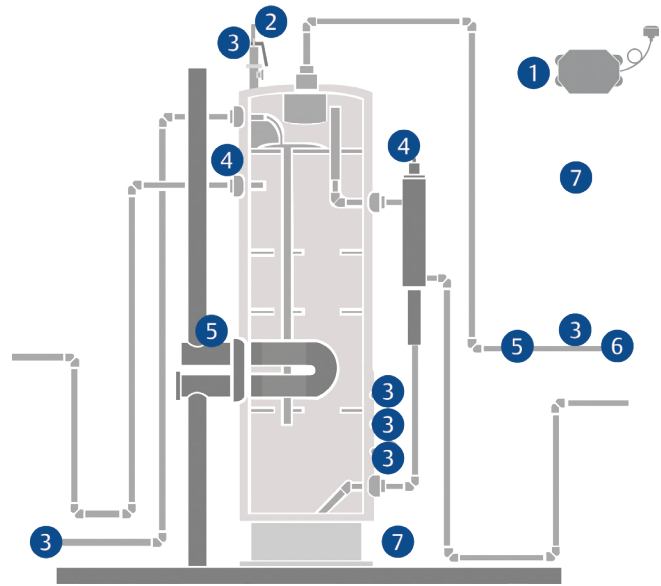
Heater treater control with abnormal situation detection improves availability and reduces measurement uncertainty to improve safety and environmental assurance, as well as efficiency.

Reduce Costs and Improve Dependability

Reliable fuel gas and pilot control and flare gas measurement improve the dependability of your operation, reducing costs and lowering emissions, with a worry-free emergency shutdown to reduce environmental impact.

Wireless Solutions to Optimize Heater Treater Operations

Automate your field faster and gain insight into remote operations with Emerson's wireless solutions for wellpads. Reduce maintenance headaches, spend less time on site and reduce the risk of environmental issues while maximizing production.



1 Wireless Network

Self-organizing adaptive mesh routing for easy start-up and integration.

- Emerson *WirelessHART*® 1410S Gateway

2 Pressure Relief Valve Monitoring

Quickly identify source of flaring and reduce emissions.

- Rosemount™ 708 Acoustic Monitor
- Plantweb™ Insight Pressure Relief Valve Application

3 Pressure Monitoring

Reduce manual rounds, increase safety and measure more critical points with solid state sensor technology.

- Rosemount Wireless Pressure Gauge
- Plantweb Insight Wireless Pressure Gauge Application

4 Tank Level Measurement

Monitor liquid level and interface level in water leg to avoid hydrocarbon or gas carryover — or a dangerous overpressure situation.

- Rosemount 3308 Guided Wave Radar
- Rosemount 2160 Vibrating Fork

5 Temperature Measurement

Accurately measure internal process temperature without a thermowell or process penetration — cut engineering and design time by up to 65%. Monitor burner metal temperature to detect solids buildup and schedule timely maintenance. The range of wireless sensor options enables quick installation throughout the wellpad.

- Rosemount 648 Wireless Temperature Transmitter with Rosemount X-well™ Technology

6 Flow Measurement

Monitor Micromotion™ drive gain to detect gas carryover.

- Micromotion 2700 Flow Meter with THUM Adapter

7 Gas and Leak Detection

Access discrete points not connected to the control system, with reliable data to help detect hydrocarbon sensor leaks that could compromise the integrity of your operation.

- Rosemount 702 Discrete Wireless Transmitter with Liquid Hydrocarbon Detection
- Rosemount 928 Wireless Gas Monitor

WirelessHART sensors can be quickly added to existing units without the need for expensive and time-consuming cabling, junction boxes or additional physical I/O points, to provide greater insight faster and cost-effectively.



For more information about wireless solutions for wellpads, visit [Emerson.com](https://www.emerson.com) or contact your sales representative.