

Rosemount™ 3051S Advanced Diagnostics



WHAT IF...

...you could gain insight into how well your process is operating?

...you could improve performance while reducing maintenance costs?

CHALLENGE

In addition to simply providing process measurements, most instrumentation today also has some form of internal device diagnostics. However, potential points of failure still exist beyond the transmitter in the electrical loop and the process itself. Left unidentified, these issues can lead to increased maintenance costs, process upsets or shutdowns, or even compromised safety.

OUR SOLUTION

The Rosemount 3051S with Advanced Diagnostics detects issues before they can affect process operations or safety. Paired with the scalable platform of the 3051S, this diagnostic package provides valuable insight into process operation that can enable better decision making, increase efficiency, and reduce costs in a variety of applications.

HOW IT WORKS

- Continuously monitors for problems throughout the entire electrical loop with the **Loop Integrity diagnostic**
- Proactively detects of abnormal conditions in the process and equipment with the **Process Intelligence diagnostic**
- Monitors build-up in impulse lines with the **Plugged Impulse Line diagnostic**
- Provides insight into the health of the transmitter with **time-stamped status and event logs**
- Diagnostics are **safety certified** for use in the most critical applications



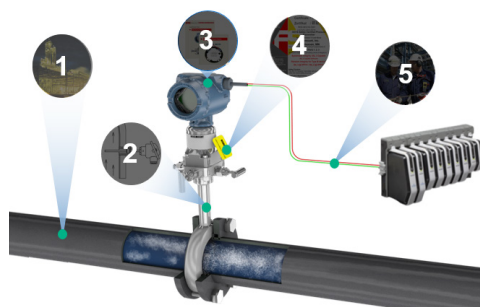
Receive Diagnostic Messages from Multiple Sources:

- Any HART® Host
- 4-20mA analog system
- Wireless THUM™ Adapter
- Local transmitter display

For more information visit
Emerson.com/3051SAdvancedDiagnostics
or contact your local Emerson™ Sales Representative



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Features	1. Process Intelligence	2. Plugged Impulse Line	3. Status and Variable Logs	4. Safety Certified	5. Loop Integrity
Problems Solved	Monitor for: <ul style="list-style-type: none"> - Pump cavitation - Valve cavitation - Distillation column flooding - Entrained air - Furnace flame instability - Process leakage - Agitation loss 	Monitor for: <ul style="list-style-type: none"> - Plugged impulse lines - Other process connection issues, like plugged orifice plate process taps, plugged Annubar™, or process leaks 	<ul style="list-style-type: none"> - Simplify troubleshooting - Know which alerts have been active and when 	<ul style="list-style-type: none"> - Reduce Probability of Failure on Demand (PFD) in safety instrumented systems - Yellow tag easily identifies transmitter as part of a safety instrumented function - SIL3 capable for use in a range of safety applications 	Monitor for: <ul style="list-style-type: none"> - Water in the terminal compartment - Corroded terminals - Wiring and grounding issues - Unstable power supply
How It Works	Rosemount's patented statistical processing technology baselines the process noise and notifies users to changes	Rosemount's patented statistical processing technology baselines the process noise and notifies users to changes	<ul style="list-style-type: none"> - Status log with time stamp capability store last 10 events in the transmitter - Variable logs with time stamp capability records extreme temperature and pressure events 	Diagnostics are certified by exida to IEC 61508	The transmitter baselines the relationship between terminal voltage and output current and notifies users to changes

Associated Products



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For more information, visit Emerson.com/3051SAdvancedDiagnostics

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