

Improve Your Operations with the Rosemount® 3051 Pressure Transmitter, Now Available with IEC-approved WirelessHART® Communications.

Rosemount 3051 Wireless Product Overview



“We are delighted with the performance... These [wireless devices] typically take around two hours to install compared with up to two days for a conventional wired unit.”

–Geir Leon Vadheim, Instrument Lead
StatoilHydro

“Emerson’s Smart Wireless network was quick and easy to install and set up... the system has been completely reliable.”

–Evan Pillon, Supervisor Electricity,
Instrumentation, Analysis Teris Spécialités

DISCOVER MORE

Just how tough is Emerson’s engineered polymer housing?

See some of our durability testing at:
www.rosemount.com/polymervideo

Find more information on the
Rosemount 3051 Wireless
Pressure Transmitter at
www.rosemount.com/3051



Scan the code to learn more.

THE CHALLENGE

Information is critical to running an efficient and safe operation that maximizes production throughput. Limited labor resources and budgets restrict your ability to execute projects that would provide more information to improve operations. With the Rosemount 3051 Wireless Pressure Transmitter, you can monitor more points throughout your operation, even in remote and hard-to-reach locations, with 40-60% cost savings over wired networks.

ROSEMOUNT 3051 WIRELESS CAPABILITIES

Solutions and experience to meet your every need

- Meet your reliability needs; Emerson Smart Wireless technology is proven with over 1 billion operating hours across 10,000 systems.
- Reduce installation time and cost with factory assembled and configured pressure, level, and flow solutions.
- Address all your application needs with calibrated spans from 3 in H₂O to 10,000 PSI (7.5 mbar to 689 bar).
- Meet your toughest environmental conditions with the IP66/67, NEMA 4X light weight engineered polymer housing with internal antenna.

Improve operational performance and efficiency

- Extend calibration intervals with 5-year guaranteed stability.
- Better monitor your process and assets with 0.04% reference accuracy and 0.15% total performance error.

Increase worker productivity and lower maintenance costs

- Reduce maintenance time by utilizing device diagnostics with step-by-step user help.
- Diagnose and address issues 82% faster with Device Dashboards.
- Reduce maintenance with power modules that are intrinsically safe, field replaceable, and provide a 10-year service life.
- Easily configure engineering units for your application needs.

Stay within budget

- Reduce infrastructure cost 40-60% with no conduit, marshalling cabinets or junction boxes.
- Reduce labor cost by adding new points in hours rather than days.
- Reduce expansion cost by adding up to 100 devices per Smart Wireless Gateway.



Common Wireless Pressure Applications

Oil and Gas Automation

- Tubing, casing and bradenhead
- Injection flow rates

Automate O&G fields faster and gain insight to remote operations. Reduce maintenance headaches, spend less time on site and reduce the risk of environmental fines while maximizing production output. Ensure wellhead integrity and optimize injection rates.

Pressure Gauge Replacement

- Manual operator rounds
- Asset monitoring

Reduce operator rounds to improve productivity. Improve personnel safety by reducing exposure to hazardous gases and extreme weather. Automate data collection to proactively detect abnormal situations in real time for troublesome assets.

Plant Utility Monitoring

- Steam and Gas
- Compressed Air
- Water

Monitor flow and pressure in compressed air, steam and water systems to benchmark energy usage, identify energy saving opportunities throughout the plant and provide accurate internal billing.

Heat Exchangers

- Inlet and outlet flow rates and pressure to calculate efficiency

Fouling of tubes reduces efficiency and increases energy usage and cost. Early detection of fouling allows for planned, preventative maintenance rather than reactive. Detect and correct heat exchanger fouling to ensure efficient heat transfer and lower energy costs.

Rosemount 3051 Wireless Pressure Products



Filters for Pumps, Turbines, Compressors

- Measure DP across filters and strainers

Prevent plugged filters, protect rotating equipment from debris, and maintain efficiency.

Environmental Compliance

- Emissions flow
- Tank overspill protection

Monitor and record emissions (SO_2 , CO_2 , NO_x) to comply with government regulations with automated reporting. Minimize emissions or potential tank overfills.

Lube Oil Systems for Rotating Equipment

- Measure lube oil pressure

Measure and maintain lube oil pressure to prevent damage or failure of critical assets such as pumps, compressors, conveyors and other rotating assets.

Tank Inventory

- Measure tank levels

Track and manage inventories levels ensure optimal scheduling of incoming deliveries. Protect against overfill or under fill. Avoid material shortages or unnecessary resupply trips.

For product ordering information, visit www.rosemount.com/3051PDS

©2013 Emerson Process Management. All rights reserved.

The Emerson logo is a trademark and service mark of Emerson Electric Co. All other marks are the property of their respective owners.

The contents of this publication are presented for information purposes only, and while effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.