

# Rosemount™ 3051 Pressure Transmitter



With the Rosemount 3051 Pressure Transmitter, you'll gain more control over your plant. You'll be able to reduce product variation and complexity as well as your total cost of ownership by leveraging one device across a number of pressure, level, and flow applications. You'll have access to information you can use to diagnose, correct, and even prevent issues. And with unparalleled reliability and experience, the Rosemount 3051 is the industry standard that will help you perform at higher levels of efficiency and safety so you can remain globally competitive.

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## Note

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# Setting the standard for pressure measurement

## Proven best-in-class performance, reliability, and safety



- More than ten million installed
- Reference accuracy 0.04 percent of span
- Installed total performance of 0.14 percent of span
- 10-year stability of 0.2 percent of URL
- SIL 2/3 certified (IEC 61508)

## Maximize installation and application flexibility with the Coplanar™ platform

- Improve reliability and performance with integrated DP Flow meters, DP Level solutions, and integral manifolds.
- Easy installation with all solutions fully assembled, leak-tested, and calibrated.
- Meet your application needs with a broad offering.

## Advanced functionality

### Bluetooth® technology

- Increase productivity, reliability, and personnel safety. No hot work permit needed. No climbing tanks or building scaffolding.
- Quickly configure, service, and troubleshoot with access to all devices near the technician at speeds up to 10 times faster than traditional HART® connections.



### Diagnostics

- The Loop Integrity diagnostic continuously monitors the electrical loop to detect issues that affect the communication signal and will alert you to corrosion, water in the housing, or an unstable power supply.
- The Plugged Impulse Line diagnostic continuously monitors for plugged impulse lines and alerts you to abnormal conditions so you can take proactive measures before it affects the quality of the process.
- Diagnostic events are tracked in the built-in diagnostic log which allows you to see the device status at all times.
- These capabilities are safety certified for your most critical applications.



#### Enhanced software

- Application specific configuration allows you to transform your pressure transmitter into a flow meter with a totalizer or a level transmitter with volume calculations.
- Process alerts can be configured for any dynamic variable. They can be given a custom name, assigned target thresholds, and can notify via HART alert or analog output alarm.

#### Quick service buttons

- Straightforward menus and built-in configuration buttons allow you to quickly commission the device.
- Configure in hazardous-area locations without removing the transmitter cover using external buttons.

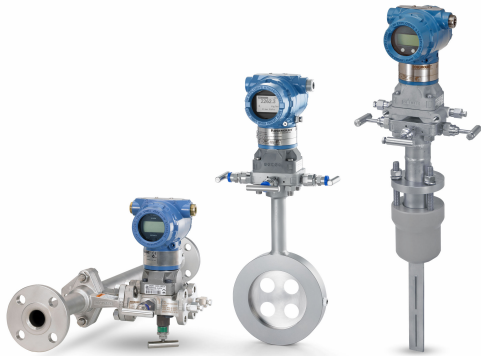


## Industry leading capabilities extended to IEC 62591 (WirelessHART®)



- Cost effectively implement wireless on the industry's most proven platform.
- Optimize safety with the industry's only intrinsically safe power module.
- Eliminate wiring design and construction complexities to lower costs by 40 to 60 percent.
- Quickly deploy new pressure, level, and flow measurements in 70 percent less time.

## Innovative, integrated DP flow meters



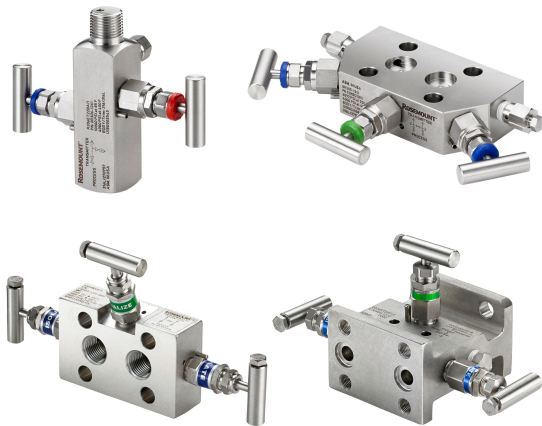
- Fully assembled and leak tested for out-of-the-box installation.
- Easy commissioning with factory configuration of flow rate and totalized flow.
- Reduce straight pipe requirements, lower permanent pressure loss, and achieve accurate measurement in small line sizes.
- Up to 1.65 percent volumetric flow accuracy at 8:1 turndown.

## Proven, reliable, and innovative DP Level technologies



- Connect to virtually any process with a comprehensive offering of process connections, fill fluids, direct mount, or capillary connections and materials.
- Configuration wizard guides you through complex level applications and enables volume measurement.
- Quantify and optimize total system performance with QZ option.
- Operate at higher temperature and in vacuum applications.
- Optimize level measurement with cost efficient Rosemount Tuned-System™ assemblies.

## Instrument manifolds – high quality, convenient, and easy



- Designed and engineered for optimal performance with Rosemount transmitters.
- Save installation time and money with factory assembly.
- Offers a variety of styles, materials, and configurations.

## Access information when you need it with asset tags

Newly shipped devices include a unique QR code asset tag that enables you to access serialized information directly from the device. With this capability, you can:

- Access device drawings, diagrams, technical documentation, and troubleshooting information in your MyEmerson account
- Improve mean time to repair and maintain efficiency
- Ensure confidence that you have located the correct device
- Eliminate the time-consuming process of locating and transcribing nameplates to view asset information