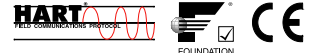


# Rosemount 3051 Pressure Transmitter

## HART® AND FOUNDATION™ FIELDBUS PROTOCOLS

- Best-in-Class performance, 0.04% High Accuracy option
- Industry first five-year stability under actual process conditions
- Unmatched Dynamic Performance
- Coplanar™ platform enables integrated pressure, flow, and level solutions
- Advanced PlantWeb® Functionality



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## Setting the Standard for Pressure Measurement

Industry's best total performance, a flexible *Coplanar* platform, and guaranteed 5- year stability, has made the Rosemount 3051 the standard in pressure measurement.

### Industry's best total performance of $\pm 0.15\%$

Total performance is the true measure of "real-world" transmitter performance. Using superior sensor technology and engineered for optimal performance, the 3051 delivers unprecedented  $\pm 0.04\%$  reference accuracy, resulting in total operating performance of  $\pm 0.15\%$ . Superior total performance equates to reduced variability and improved plant safety.

### Five year installed stability of $\pm 0.125\%$

Transmitter stability is a critical measure of transmitter performance over time. Through aggressive simulation testing beyond standard IEC 770 testing, the 3051 has proven its ability to maintain performance over a five year period under the most demanding process conditions. Superior transmitter stability reduces calibration frequency to save operation and maintenance costs.

### Unmatched dynamic performance

In dynamic applications, speed of measurement is as important as repeatability. The 3051 responds up to eight times faster than the typical pressure transmitter to detect and control variations quickly and efficiently. Superior dynamic response yields more accurate measurements to reduce variability and increase profitability.

### *Coplanar* platform enables complete point solutions

The versatile *Coplanar* platform design enables the best process connection for pressure, flow and level applications. Right out of the box, the solution arrives factory calibrated, pressure-tested, and ready to install. Only the 3051 has a flexible design to reduce engineering and inventory costs.

### Advanced *PlantWeb* Functionality



The 3051 powers the *PlantWeb* architecture by delivering the best sensor and transmitter, best installation practices, and best in class field intelligence. One component is the enhanced diagnostic capabilities in *FOUNDATION* fieldbus that provide an increase in process visibility, enabling proactive maintenance and improving process availability.

## Rosemount Pressure Solutions

### Rosemount 3051S Series of Instrumentation

Scalable pressure, flow and level measurement solutions improve installation and maintenance practices.

### Rosemount 3095MV Mass Flow Transmitter

Accurately measures differential pressure, static pressure and process temperature to dynamically calculate fully compensated mass flow.

### Rosemount 305 and 306 Integral Manifolds

Factory-assembled, calibrated and seal-tested manifolds reduce on-site installation costs.

### Rosemount 1199 Diaphragm Seals

Provides reliable, remote measurements of process pressure and protects the transmitter from hot, corrosive, or viscous fluids.

### Orifice Plate Primary Element Systems: Rosemount 1495 and 1595 Orifice Plates, 1496 Flange Unions and 1497 Meter Sections

A comprehensive offering of orifice plates, flange unions and meter sections that is easy to specify and order. The 1595 Conditioning Orifice provides superior performance in tight fit applications.

### *Annubar*<sup>®</sup> Flowmeter Series: Rosemount 3051SFA, 3095MFA, and 485

The state-of-the-art, fifth generation Rosemount 485 *Annubar* combined with the 3051S or 3095MV MultiVariable transmitter creates an accurate, repeatable and dependable insertion-type flowmeter.

### Compact Orifice Flowmeter Series: Rosemount 3051SFC, 3095MFC, and 405

Compact Orifice Flowmeters can be installed between existing flanges, up to a Class 600 (PN100) rating. In tight fit applications, a conditioning orifice plate version is available, requiring only two diameters of straight run upstream.

### *ProPlate*<sup>®</sup> Flowmeter Series: Rosemount *ProPlate*, *Mass ProPlate*, and 1195

These integral orifice flowmeters eliminate the inaccuracies that become more pronounced in small orifice line installations. The completely assembled, ready to install flowmeters reduce cost and simplify installation.