

Rosemount 3051S High Static Differential Pressure Transmitter

Unmatched performance in the harshest environments



CHALLENGE

Unconventional oil and gas recovery methods, such as deep water offshore operations and enhanced oil recovery, require process measurement equipment to maintain tight control under extremely harsh conditions. Many of these applications require flow measurements using differential pressure (DP) sensors that withstand static pressures up to 15,000 psi (1,034 bar).

OUR SOLUTION

An innovative, compact transmitter design incorporating Emerson's Coplanar™ SuperModule™ technology withstands high pressures of up to 15,000 psi, while delivering unmatched performance and reliability in your most critical operations.

HOW IT WORKS

Emerson's patented compact Coplanar transmitter design is significantly lighter than today's high pressure transmitters.

WHAT IF...

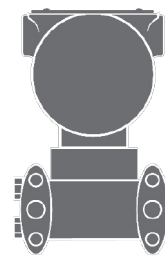
... you could accurately make critical measurements in the harshest conditions?

...you could make these critical measurements while meeting stringent weight and installation cost requirements?

15,000 psi (1,034 bar) maximum working pressure-capable design for DP applications



Rosemount™ 3051S High Static Differential Pressure Transmitter



Today's Offering
18 lbs. (8.16 kg)

60% Less Weight



Rosemount 3051S
7 lbs. (3.18 kg)

For more information visit
Emerson.com/Rosemount3051SHighStaticDP
or contact your local Emerson™ Sales Representative



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ADVANCED CAPABILITIES

MultiVariable Measurement

- Reduce installation and wiring costs
- Increase accuracy with compensated flow measurement
- Callendar-Van Dusen temperature sensor matching can increase flow accuracy by 80%
- Measure differential pressure, static pressure and temperature at line pressures of 6,092 psi (420 bar) with Rosemount MultiVariable™ transmitters
- In extreme applications measure differential pressure and temperature at line pressures of 15,000 psi (1,034 bar) with the Rosemount 3051SHP

Advanced Diagnostics

- Gain insight from the process to the host with unmatched diagnostic coverage
- Prevent on-scale failures by diagnosing electrical loop issues with Loop Integrity diagnostics
- Extend diagnostic coverage to Safety Instrumented Systems with IEC 61508 SIL 2/3-capable design

WirelessHART® Communication

- Quickly deploy new pressure and flow measurements in 70% less time
- Eliminate wiring design and construction complexities to lower costs by up to 60%



SCALABILITY ENABLES COMPLETE, INTEGRATED DIFFERENTIAL PRESSURE OFFERING

DIRECT CONNECTION



Coned and threaded autoclave connection enables operation in applications with static pressures up to 15,000 psi (1,034 bar)

REMOTE SEALS



Wide range of remote seal options for static pressures of up to 15,000 psi MWP

MANIFOLDS



Manifold capabilities enable static pressures of up to 10,000 psi MWP

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Standard Terms and Conditions of Sale can be found at

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