

Emerson's Rosemount® 3051S High Static Differential Pressure Transmitter

Unmatched performance in the harshest environments



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?

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

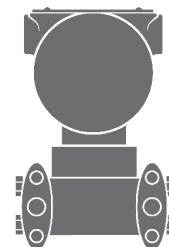
Emerson's patented compact coplanar transmitter design is significantly lighter than today's high pressure transmitters.

For more information contact
your local Emerson Sales Representative

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)

ADVANCED CAPABILITIES

Differential Pressure and Temperature

- Reduce installation and wiring costs with a 2-in-1 pressure and temperature measurement
- Make more accurate measurements for liquids and gas
- Callendar-Van Dusen temperature sensor-matching can increase flow accuracy by 80%

Advanced Diagnostics

- Gain insight from the process to the host with unmatched diagnostic coverage
- Prevent on-scale failures by diagnosing electrical loop issues with Power Advisory 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:

- Compact lightweight design
- Operation in applications with static pressures up to 15,000 psi (1,034 bar)

REMOTE SEALS



Remote seal options capable of:

- Range of options for static pressures of up to 10,000 psi (689 bar) MWP
- Specialized seal offering designed per API standards for static pressures of up to 15,000 psi MWP

MANIFOLDS



Manifold capabilities enable:

- Static pressures of up to 10,000 psi MWP

Rosemount Inc.

6021 Innovation Blvd.

Shakopee, MN USA 55379

+1 800 999 9307 or +1 952 906 8888

+1 952 906 8889

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