Rosemount Pressure Gauges
5g Vibration Rating

WHAT IF...

... you could gain more confidence in your pressure gauge's measurement accuracy, even in high vibration?

... you could eliminate the cost and safety risks associated with vibration-induced failure?

CHALLENGE

The number one cause of pressure gauge failure is vibration. These failures prevent you from receiving the information needed to operate your process efficiently and safely. Vibration causes continuous internal damage and needle instability in mechanical pressure gauges. This diminishes accuracy and leads to failure. Unreliable pressure gauges can result in high replacement costs, unplanned process downtime, and increased risk to personnel safety.

OUR SOLUTION

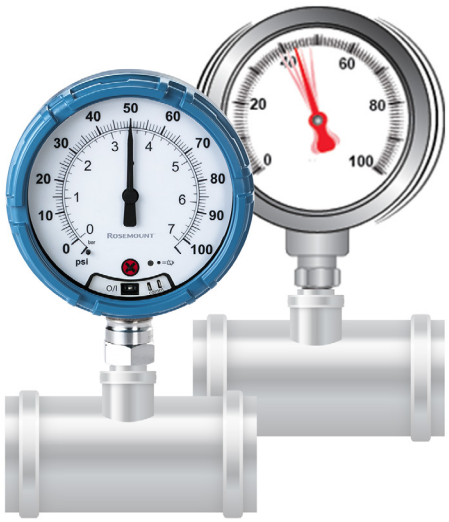
Rosemount™ Wireless Pressure Gauges and Rosemount Smart Pressure Gauges are rated to handle 5g of vibration. This is the IEC standard for a field or pipeline with high vibration, meaning you can expect smooth operation and increased reliability.

HOW IT WORKS

Overcoming traditional vibration challenges required implementing new pressure gauge technology. Emerson's Rosemount Pressure Gauges replace mechanical components with a patented solid-state sensor that is designed to provide a 30-year service life and offer capabilities not available with traditional pressure gauges.

Technology advancements include:

- Dual process isolation layers protect internals from your process
- Motor-driven needle corrects position for increased stability
- Industry-leading wireless capabilities are uninterrupted by vibration



Benefits of a Solid-State Sensor

- No moving parts means less points of failure
- Process isolation keeps process fluid where it belongs: in the pipe

For more information visit
Emerson.com/Rosemount-Wireless-Pressure-Gauge
or contact your local Emerson Sales Representative

EMERSON™

Rosemount Pressure Gauges

Key Product Specifications*

Accuracy	0.5% of span nominal accuracy
Display	4.5 in. (114 mm)
Pressure Range	Up to 10,000 psi (689 bar)
Measurement Types	Gage, absolute, compound and vacuum
Engineering Units	psi, kilopascals (kPa), bar, mbar, megapascal (MPa), inH_2O, kg/cm^2, ftH_2O, mmH_2O, inHg, cmH_2O, cmHg, mmHg, % of range, custom
Enclosure	Engineered polymer – NEMA 4X, IP66/67
Weight	1.8 lb. (0.82 kg)
Battery Life	Up to 10 years
Burst Pressure	Up to 12,000 psi (827 bar)
Overpressure Protection	Up to 150x scale range
Hazardous Location Approvals	Intrinsic Safety: US, Canada, IECEx, ATEX
Temperature Limits	Ambient: -40 to 175° F (-40 to 85° C) Process: -40 to 250° F (-40 to 121° C)
Output	*Wireless*HART™ Communication Protocol (Wireless Pressure Gauge Only)
Communication Range	Up to 750 ft. (225 m)
Status Indicators	LED, needle position and wireless reporting

*See product data sheet for full specifications.

Associated Products

Diaphragm Seals	Integral Manifolds	Smart Wireless Gateway
		

Global Headquarters
Emerson Automation Solutions
6021 Innovation Blvd.
Shakopee MN 55379
USA
+1 800 999 9307 or +1 952 906 8888
+1 952 949 7001
RFQ.RMD-RCC@Emerson.com

00807-0100-4102 Rev AA

Consider it Solved.

Emerson Automation Solutions supports you with innovative technologies and expertise to address your toughest challenges. For more information, visit Emerson.com/Rosemount-Wireless-Pressure-Gauge.

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