Pressure Sensors and Gauges

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Reliable process measurement for less - ProSense® Pressure Sensors

Digital Pressure Switch/Transmitter

QPS Series
- Precision digital pressure switch/transmitter, 2 meter cable
- Two digital outputs (NPN or PNP) which may be set individually and a 4-20 mA analog output
- Two vacuum to pressure ranges (-15 psi to 5 in H2O) or (-15 psi to 14 in H2O)
- All models non-corrosive/non-flammable gases only
- Three operation modes: Easy, Window and Hysteresis
- 3-color digital LCD display
- 6 pressure unit conversions
- Lockable keypad
- Optional panel mount and bracket kits

MPS25 Series Mechanical Pressure Switches
- 316 stainless steel housing
- All stainless welded diaphragm or stainless piston and Buna-N O-ring
- Pressure range from -15 psi vacuum to 7500 psi
- Tamper resistant field adjustment
- Integral 6-60psi cable with 1/2 inch NPT male conduit connection, or DIN formC electrical connections
- 1/4 inch NPT male process connection
- Wide operating temperature range
- Precision snap-acting SPDT, 3 Amp mechanically operated switch

Electronic Pressure Switch

PS20 Series
- Simple setup using mechanical adjustment dials
- Durable with 316 stainless steel process connection
- Pressure ranges up to 5800 psig
- M12 quick disconnect electrical connection
- LED’s indicate switching and operating status
- Complementary switching outputs 24VAC/DC, 600 mA DC
- Vibration and shock-resistant

Mechanical Dial Pressure Gauges with 1.5”, 2.0” and 2.5” Diameter Dials
- Available in durable steel or stainless steel cases and in either dry or liquid filled models. (Liquid filled gauges dampen the effects of vibration and pulsations).
- Brass wetted parts are suitable for air, oil, or water pressure gauge applications.
- Stainless steel wetted parts are available for use in pressure gauge applications for corrosive materials.
- Dual marked gauge dial faces (psig/kpa or inHg/kpa) are available in pressure ranges from vacuum up to 6000 psi.
- 5 year warranty

Digital Pressure Gauges

DPG1 Series
- ±0.5% accuracy
- 2 button operation
- Backlight display turns on when on/off button is pressed
- Option for continuous peak pressure indication
- Continuous on display option or timeout to save battery life
- Wide variety of pressure unit selections
- Reset to zero function
- Powered via 2 x AAA batteries (Included)
- Rubber boot for added protection (Included)
- 316L welded diaphragm seal

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Differential Pressure Gauges

SPT25 Series Features
- All stainless steel wetted parts
- Pressure ranges from 100 psig to 5000 psi
- 1/4 inch NPT male threaded process connection
- Output 4-20 mA
- Pin 12 M2 quick disconnect electrical connection
- 3 year warranty

SPTD25 Series Features
- All stainless steel wetted parts
- Pressure ranges from vacuum to 5000 psi
- Fast response time of <1ms
- Output options: 4-20 mA or 0-10 VDC
- Integral 6.6 ft cable or DIN connector
- Made in USA
- $152.00 with integral cable, $197.00 with DIN Connector

DPTA Series Features
- Differential pressure measurement with a highly stable capacitive sensing element
- Positive, negative, and bi-directional pressure measurement
- Pressure ranges from 0.1″ w.c. to 25″ w.c.
- Accuracy is +/-1% of span maximum
- High over pressure rating of 15 psig
- LED loop power status indicator
- Made in USA
- 3 year warranty

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Pressure Sensors Accessories

Pressure snubbers protect sensitive pressure sensors from the damaging effects of spikes and surges, while siphons provide separation from continuous high-temperature media. Needle valves allow precise flow rate regulation and the removal of downstream devices without shutting down the process.

Siphons

Siphons protect pressure gauges, transmitters, transducers, and switches from the effect of high-temperature pressure media such as steam.

- Available in brass, carbon steel, or stainless steel for compatibility with different media
- 1/4in male NPT process connections
- Maximum operating pressure up to 1650 psi
- Maximum operating temperature up to 680°F (360°C)
- 5-year warranty

Adjustable Pressure Snubbers

Adjustable pressure snubbers meet a wide variety of media viscosity applications by providing an adjustable snubbing element to suppress pressure surges, improve readability, and prevent wear and damage to delicate instruments.

- Brass or stainless-steel bodies depending upon pressure media
- 1/4in male NPT x 1/4in female NPT process connections
- Maximum operating pressure: 6000 psi
- Maximum operating temperature: 248°F (120°C)
- ASME B1.20.1 compliant
- 5-year warranty

Pressure Snubbers

Pressure snubbers protect instruments such as gauges, transmitters, transducers, and switches by suppressing pressure spikes commonly found in harsh applications involving reciprocating pumps, compressors, hydraulic presses, or fluid power systems.

- Snubbing element with large surface area ensures long term effectiveness
- Available in the three standard viscosity classifications: heavy oil, water and air
- Brass or stainless steel bodies depending upon pressure media and operating pressure
- Maximum operating pressure up to 20,000 psi
- Maximum operating temperature up to 1500°F (815°C)
- 1/4in male NPT x 1/4in female NPT process connections
- ASME B40.100 compliant
- 5-year warranty

Manual Block and Bleed Needle Valves

Manual block and bleed needle valves isolate pressure instruments from the sensed media, allowing for quick and effortless removal and maintenance of the devices without shutting down the process. The needle valve allows for precise manual flow rate regulation.

- Excellent flow regulation and leak tight
- The one-piece body construction provides strength, safety and corrosion resistance
- “Slow opening” prevents sudden pressure surge and instrument damage
- Materials include carbon steel and stainless steel
- Available in Soft and Hard Seat (6,000 psi)
- Maximum operating temperature: 977°F (525°C)
- ASME B1.20.1 compliant
- 5-year warranty

Manual isolation and throttling needle valves isolate pressure instruments from the sensed media, allowing for quick and effortless removal and maintenance of the devices without shutting down the process. The needle valves allow for precise manual flow rate regulation.

- The one-piece body construction provides strength and corrosion resistance
- Available in soft seat (6,000 psi) and hard seat (10,000 psi)
- All stems are 316 stainless steel
- Maximum operating pressure up to 10,000 psi
- Maximum operating temperature: 383°F (195°C)
- 5-year warranty

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