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ProSense® Endress+Hauser

Pressure Sensors and Gauges

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Reliable process measurement for less - ProSense® Pressure Sensors

Digital Pressure Switch/Transmitter QPS Series

all models $87.00

- Precision digital pressure switch/transmitter with 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 (-14.5 to 14.5 and -14.5 psig to 145 psig)
- Air, 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

Digital Pressure Switch/Transmitter EPS Series

starting at $283.00

- Precision digital pressure switch/transmitter with 4 pin M12 quick disconnect
- Pressure ranges from vacuum up to 5800 psig
- Selectable engineering units include: psig, bar, mbar, kPa, MPa, inH2O, and inHg
- Two discrete switch outputs NO or NC(NPN or PNP)
- Output 2 can be configured as a scalable analog signal (4-20 mA or 0-10V) on select models
- Stainless steel housing with IP67 rating (washdown)
- Large 2 color, 4 digit display provides indication of measured pressure and switch setpoints, plus two bright output status LEDs
- Housing rotates 345° for optimum visibility after installation
- Simple pushbutton setup (no reference gauge required)
- Protective cover and mounting bracket available

Electronic Pressure Switch PSD25 Series

all models $107.00

- Simple setup using mechanical adjustment dials
- Durable housing with 316 stainless steel process connection
- Pressure ranges up to 5800 psig
- M12 quick disconnect electrical connection
- LEDs indicate switching and operating status
- Complementary switching outputs (N.O./N.C.), 500 mA DC
- Vibration and shock-resistant

MPS25 Series Mechanical Pressure Switches

starting at $121.00

- 316 stainless steel housing
- All stainless welded diaphragm or stainless piston and Buna-N O-ring
- Pressure ranges from-15 psig vacuum to 7500 psig
- Tamper resistant field adjustment
- Integral 6-foot 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

Mechanical Dial Pressure Gauges with 1.5", 2.0" and 2.5" Diameter Dials

starting at $10.00

- 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 psig.
- 5 year warranty

Digital Pressure Gauges DPG1 Series

all models $140.00

- ±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 feature
- Powered via 2 x AAA batteries (included)
- Rubber boot for added protection (included)
- 316L welded diaphragm seal

For the latest prices, please check AutomationDirect.com.

Differential Pressure Gauges

all models $67.00

- Industrial grade black die-cast aluminum case
- ±2% full scale accuracy
- High temperature tolerance
- Resistance-free movement
- Re-zero adjustment
- Mounting and connection hardware included.
- Other mounting accessories available.
- For practically any appication involving air or non-combustible gasses
- 5 year warranty

Differential Pressure Gauges

all models $795.00

- Wet-wet design ideal for liquid, gas, and steam measurement of differential, positive, or negative pressures, hydrostatic liquid level, and flow
- Integral pressure port manifold with 1/4" female process connections and built-in equalizing valve
- Digital filter function to dampen pulsations and provide a more stable output and display
- Key lock function to prevent unauthorized changes to configuration settings
- Bright backlit 6-digit LCD display
- Scaling function allows display to indicate user defined units of measure
- Internal "pushbutton" configurability allows quick range changes
- "Loop check" function allows unit to output 4-20 mA without applying pressure
- Up to 8X smaller than a conventional style DP transmitter
- Easily rotatable display, 90° increments
- Rugged NEMA 4X (IP65) aluminum die cast housing
- 3 year warranty

Pressure and Vacuum Transmitters

SPTD25 Series Features

all models $119.00

- All stainless steel wetted parts
- Pressure ranges from100 psig to 5000 psig
- 1/4 inch NPT male threaded process connection
- Output 4-20 mA
- 4-pin M12 quick disconnect electrical connection
- 3 year warranty

SPT25 Series Features

starting at $147.00

- All stainless steel wetted parts
- Pressure ranges from vacuum to 5000 psig
- 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
- $153.00 with integral cable, $147.00 with DIN connector

PTD25 Series Features

all models $151.00

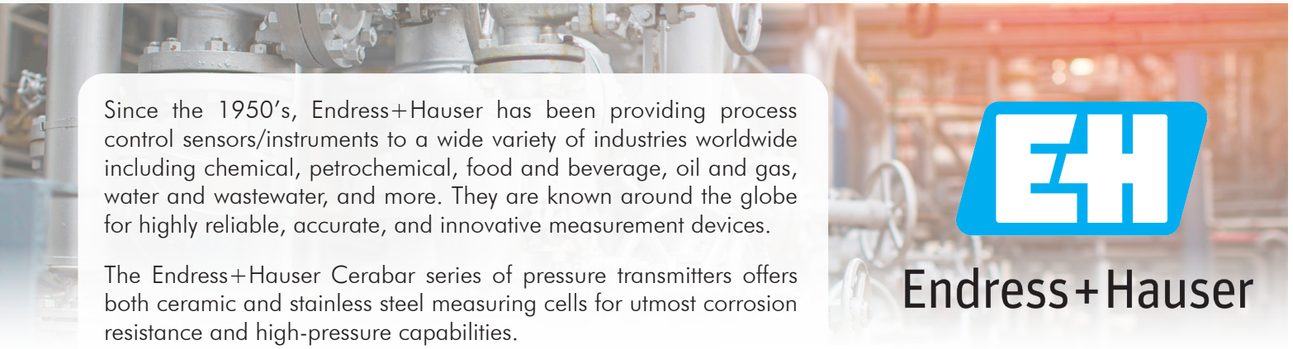
- Ceramic sensing element with Viton seals
- High over pressure ratings
- Pressure ranges from vacuum to 5000 psig
- 1/4 inch NPT male threaded process connection
- Output options: 4-20 mA or 0-10 VDC
- M12 quick disconnect electrical connection
- UL508 listed, CE marked
- 3 year warranty

DPTA Series Features

starting at $147.00

- 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 overpressure rating of 15 psig
- LED loop power status indicator
- Made in USA
- 3 year warranty

Pressure transmitters from a global leader in process measurement instrumentation



Since the 1950's, Endress+Hauser has been providing process control sensors/instruments to a wide variety of industries worldwide including chemical, petrochemical, food and beverage, oil and gas, water and wastewater, and more. They are known around the globe for highly reliable, accurate, and innovative measurement devices.

The Endress+Hauser Cerabar series of pressure transmitters offers both ceramic and stainless steel measuring cells for utmost corrosion resistance and high-pressure capabilities.

PMC11/PMC21 series with ceramic measuring cell

Ceramic is one of the hardest materials in the world and ensures the best material properties for the medium. Cerabar capacitive ceramic measuring cells have membranes up to 30 times thicker than conventional cells. Even the tiniest of deflections result in measuring signals with the highest accuracy.

The ultra-pure ceramic (99.9%) guarantees high resistance to corrosion, minimal temperature hysteresis, and the best overload resistance.

- Compact pressure transmitter
- Capacitive, oil-free ceramic sensor
- Measuring principle: gauge pressure

Starting at **$308.00**

PMC11

- Measuring ranges up to 40 bar (600 psi *max pressure)
- Process temperature: -13 to +185°F
- Accuracy: ±0.5% of span
- Output: 4 to 20 mA

PMC21

- Measuring ranges up to 40 bar (600 psi *max pressure)
- Process temperature: -13 to +212°F
- Accuracy: ±0.3% of span
- Output: 4 to 20 mA

PMP11/PMP21 series with metallic measuring cell

As a high-performance solution for high pressure applications up to 400 bar (6,000 psi), these pressure transmitters have passed Endress+Hauser's stringent durability tests and work reliably across a large temperature range.

Cerabar metallic cell transmitters feature a piezo-resistive sensor and are designed to withstand the harsh conditions of the process industry by using high quality materials like 316L steel. With supreme longevity, these transmitters will reliably measure absolute and/or gauge pressure of gases or liquids for many years to come.

- Compact, fully welded pressure transmitter
- Piezo-resistive sensor, stainless steel sensing element
- Measuring principle: Gauge pressure or absolute pressure

Starting at **$302.00**

PMP11

- Measuring ranges up to 40 bar (600 psi *max pressure)
- Process temperature: -13 to +185°F
- Accuracy: ±0.5% of span
- Output: 4 to 20 mA

PMP21

- Measuring ranges up to 400 bar (6,000 psi *max pressure)
- Process temperature: -40 to +212°F
- Accuracy: ±0.3% of span
- Output: 4 to 20 mA

For the latest prices, please check AutomationDirect.com.

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.

Starting at **$7.50**

- 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.

Starting at **$25.75**

- 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 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 pressure, allowing the devices to be easily removed and maintained without shutting down the process. The needle valve allows for precise manual flow rate regulation, while the bleed port permits downstream pressure to be relieved without disturbing the permanent piping installation.

Starting at **$81.50**

- The one-piece body constriction 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

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.

starting at **$10.50**

- 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 Isolation and Throttling Needle Valves

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.

starting at **$43.00**

- 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