

PRESSURE TRANSMITTERS



The **NP-430D** series of pressure transmitters have been developed for general industrial applications including refrigeration technology. It can be used with most refrigerant gases and liquids but is NOT compatible with ammonia (NH₃).

- Pressure range: Refer to laser mark in the body of the transmitter
- Signal output: two-wire 4-20 mA
- Power supply (V): 12 to 28 Vdc
- Load (RL): $RL_{max} = (V - 12 V) / 20 mA$
- Accuracy: better than 1% FS
- Long-term stability: 0.4% / FS / year
- Over load: 150% FS
- Rupture pressure: 300% FS
- Electrical connection: DIN 175301-803C (mini DIN)
- Protection: IP65
- Weight: 200g
- Ambient temperature: -40 to 80 °C
- Process fluid temperature: -40 to -100 °C
- Response time: <10 ms (0 to 99%)
- Process connection: External thread 1/4" - 18 NPT (basic model)
- Wetted parts: Stainless Steel 1Cr18Ni9Ti, Ceramic Diaphragm (Al₂O₃-96%)
- Sealing material: Nitrile NBR O'ring
- Electromagnetic Compatibility: EN50081-1/-2 and EN50082-2



The **510** and **511** series of pressure transmitters were designed for high volume and low cost OEM industrial and commercial applications. The **510** has a unique stainless steel diaphragm for all media compatibility suited for refrigeration and industrial cryogenics and compressors systems while the **511** features a high stability ceramic sensor which withstands a broad temperature range being suited for industrial compressors and steam measurements.

- Range: -1 to 160 bar in several steps (for 510); -1 to 600 bar (for 511)
- Working temperature: -40 to 85 °C(510), -25 to 85 °C (for 511)
- Media contact material: SS 1.4305 (510); ceramic and 1.4305 stainless steel (511)
- Process thread: 1/4" - 18 NPT
- Rupture pressure:
- 510: 6 times FS limited to 900 bar
- 511: 2.5 times FS limited to 900 bar (patented PPS media stopper avoids fluid leakage)
- Accuracy: < ±0.5(510)/±0.3% (511) FS including hysteresis, linearity & repeatability
- Quickon electrical connector, IP 67 protection
- Output: two-wire 4-20 mA
- Power supply: 8-33 Vdc
- Weight: 98 g
- Dimensions: Ø 23 x 82 mm



Designed for high performance applications, the **691** series of pressure transmitters features great accuracy at moderate cost in the range of 600 bar relative pressure or 16 bar absolute.

- Maximum range:
 - 1 to 600 bar (relative pressure)
 - 0 to 15 bar (absolute pressure)
- Working temperature: -15 to 80 °C
- Media material: ceramic and 1.4305 stainless steel (AISI 303)
- Accuracy: 0.3% FS including hysteresis, linearity and repeatability
- Pressure connection: 1/4"-18 NPT or external 1/2"-14 NPT
- Protection: 2 X measuring range
- Rupture pressure: 3 X measure range
- Electrical connector: DIN 43650-A, IP65 or cable gland with 1.5m cable
- Output: two-wire 4-20 mA. Other under request
- Electromagnetic compatibility: CE conformity to EC directive 89/336
- Power supply: 11 to 33 Vdc
- Weight: 245 g
- Dimensions: Ø 36 x 64 mm

PRESSURE TRANSMITTERS



The **692** series of differential pressure transmitters use unique ceramic technology to accurately measure from 0 to 0.1 bar up to 0 to 25 bar differential and yet withstanding high one-side overloads.

- Ranges: 0 to 0.1 bar and up to 0 to 2.5 bar
- Working temperature: -15 to 80 °C
- Media material: ceramic and 1.4305 stainless steel (AISI 303)
- Accuracy: 0.5% FS including hysteresis, linearity and repeatability
- Pressure connection: 1/8" NPT thread or push-on spigot
- System pressure: 25 bar for 10 bar range unit and 50 for 25 bar range unit
- Rupture pressure: 1.5X system pressure
- Electrical connector: DIN 43650-A, IP65 or cable gland with 1.5 m cable
- Output: two-wire 4-20 mA. Other signals under request
- Electromagnetic compatibility: CE conformity to EC directive 89/336
- Power supply: 11 to 33 Vdc
- Weight: 430 g
- Dimensions: Ø 45 x 89 mm



The **694** series of differential transmitters are ideal for high accuracy monitoring and controlling low air flow in air-conditioning systems, in clean rooms applications, fine pressures in laboratories and in critical filters of non-corrosive gases.

- Possible ranges: 0 to 1 mbar; 0 to 3; 0-5; 0-10; 0-16; 0-25 and 0 to 50 mbar
- Working temperature: 0 to 70 °C
- Silicone diaphragm LSR bi-component
- Rupture pressure: 2 times FS at ambient temperature, 1.5 times FS at 70°C
- Accuracy: ±1% at 0-1mbar (worst case)
- Pressure connections: 2 Ø 6.2 mm pipes
- Electrical connections: 6.3 mm lugs and PG11 cable gland
- Output: two-wire 4-20 mA or 0-10 Vdc
- Response time: less than 10 ms
- Optional: square root extraction
- Power supply: 11 to 33 Vdc
- Electrical magnetic compatibility conforms to CE standards
- Enclosure conforms to UL94
- Weight: 90 g
- Dimensions: 92 x 75 x 49 mm



Used as DP flow switch in ventilation ducts for the control of filters and fans, and in primary and secondary control systems for the control of dampers. Precise setpoint adjustment is done through individual scale and by turning knob.

- Ranges: 0.2 to 3 mbar; 0.5 to 5mbar; 1-10 mbar; 0 to 50 mbar and 10 to 50 mbar
- Electrical contact: 5 A @ 250 Vac SPDT; 2 A @ 30 Vdc
- Service life: 106 switching cycles
- Working temperature: -30° to 70 °C
- Silicone LSR diaphragm
- Lowest turn-on pressure: 0.2 mbar
- Hysteresis: 0.1 mbar
- Repeatability: ±0.025 mbar (0.2-3 mbar); ±0.05 (0.5-20 mbar); ±0.15 (10-50 mbar)
- Overpressure protection: 75 mbar
- Pressure connection: 2 pipes Ø 6.2 mm
- Electrical connection: 6.3 mm lugs and PG11 gland
- Fiber glass reinforced plastic enclosure
- Protection: IP54
- Weight: 144 g
- Dimensions: 103 x 88 x 55 mm