



PROCESS INSTRUMENTATION

Processes require precision

Reliable, low-maintenance pressure measurement with SITRANS P

usa.siemens.com/pressure

SIEMENS

SITRANS P pressure measurement

For gases, liquids, and paste-like media, the gauge pressure, absolute pressure, and differential pressure must be measured constantly to detect values that are too low or a potential overload. Whether for pipelines, valves, or reactors, the SITRANS P transmitter family offers the right solution for every application.

The most important factor in selecting the right pressure transmitter is the required accuracy of the measuring range. SITRANS P transmitters offer a variety of choices from 0.03 percent to 0.3 percent. They're suitable for safety-related applications, with certifications according to SIL2 and SIL2/3.

Numerous bus systems for communication are also supported, including HART®, PROFIBUS PA, and FOUNDATION Fieldbus. In addition, the transmitters have all the most current approvals and certificates. Our pressure measuring devices give you the instrumentation reliability you need to meet your own specific requirements.

SITRANS P500

- Maximum measurement accuracy for highest precision requirements
- Reduction of storage costs with a turndown ratio of 200:1
- Reduction of maintenance costs due to high long-term stability
- Easy operation using the 3-key operating design and graphics-capable display

Industry: energy, chemical, oil & gas



SITRANS P200/210/220

A series for all pressure types:

- P200: gauge and absolute pressure with ceramic diaphragm for medium measuring ranges (up to 1,000 psi)
- P210: gauge and absolute pressure with stainless-steel diaphragm for low measuring ranges (up to 8.7 psi)
- P220: gauge and absolute pressure with fully welded stainless-steel diaphragm for high measuring ranges (up to 14,500 psi)

Industry: mechanical engineering, shipbuilding, energy



SITRANS P420

- High measurement accuracy of 0.040%
- Developed according to IEC61508 standards for SIL2/3
- Improved HMI display: larger, new and improved display with NAMUR NE107
- 4-key operation
- Remote safety handling
- Ready for digitalization

Industry: chemical, oil & gas, energy, shipbuilding, mechanical engineering

SITRANS P320

- High measuring accuracy of 0.065%
- Developed according to IEC61508 standards for SIL2/3
- Improved HMI display: larger, new and improved display with NAMUR NE107
- 4-key operation
- Remote safety handling

Industry: chemical, oil & gas, energy, shipbuilding, mechanical engineering, water/wastewater





SITRANS P300

- Designed for hygienic applications and available with more than 90 process connections
- Ideally suited for external cleaning with high protection classes IP68 and IP69K
- Features all current hygiene, material, and calibration certificates
- Low measurement errors, even at high temperatures

Industry: food & beverage and pharmaceuticals

SITRANS P280

- Transmits measured process variables, diagnostic information, parameters, and functions via radio
- Low power consumption due to high-capacity battery with a battery life of up to five years
- Flexible, easy configuration via HART® or the 3 pushbuttons and functional display
- Particularly suitable for applications in remote sections of the plant as well as moving or rotating equipment

Industry: chemical, water/wastewater, energy



SITRANS P Compact

- Features a wide range of aseptic process connections
- Space-saving transmitter thanks to compact enclosure
- Easy cleaning
- Process temperatures up to 392 °F possible

Industry: food & beverage and pharmaceuticals

SITRANS LH100, LH300

- Slim design with 0.92" diameter allows installation in pipes with 1" inner diameter
- Easy and safe installation even without cable socket thanks to built-in humidity filter in the cable
- Resistant to harsh environmental conditions due to the piezoresistive ceramic sensor
- SITRANS LH300: outer diameter of 1.02"

Industry: water/wastewater



Accessories

Remote seal

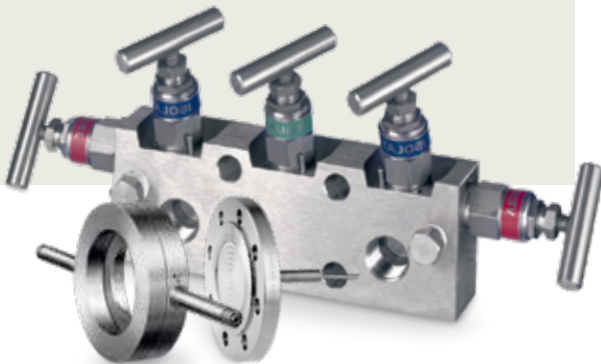
- High variance to meet all the requirements of each industry
- Wide range of diaphragm materials ensures excellent chemical resistance to medium

Aperture measurements

- Suitable for measuring high temperatures and pressure
- Can be combined with SITRANS P500, P410, P DS III, P310

Valves and valve blocks

- Save time with pre-mounted valve block
- Entire unit is seal-tested under pressure



Measuring everything that matters:

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Siemens Process Instrumentation offers best-in-class measurement and seamless integration into your automation system. We are the total solution provider for flow, level, pressure, temperature, weighing, positioners and more.

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