

Differential Pressure Sensor Series



The Johnson Controls Differential Pressure (DP) Sensors are high-performing, reliable, and durable air differential and wet-to-wet sensors with a broad range of temperatures and long operating range control. They maximize long-term stability, device life, and serviceability with the Johnson Controls three-year warranty making them the ideal choice for virtually any application.

The power behind **your mission**



Differential Pressure Transducer Wet-to-Wet DP 110 Series

DP 110 key features include:

- ± 0.25 percent FS accuracy
- Available to 1 PSID with 350 PSI line pressure
- No liquid fill diaphragm
- NEMA 4-rated housing
- Low line pressure effect
- Fast response time
- Gas and liquid compatible
- CE and RoHS compliant
- Three-year warranty

The Johnson Controls DP 110 sensor is a solution for monitoring differential pressure in wet-to-wet applications. The DP 110 uses a single diaphragm design that enables a true wet-to-wet differential pressure measurement with superior ± 0.25 percent full-scale (FS) accuracy, compared to competitive units which calculate differential pressure using two single-point pressure sensors. The stainless steel capacitive sensor provides a fast response and a highly accurate, linear analog output. The DP 110 series is offered with an optional three- or five-valve machined brass manifold to ensure ease of installation and maintenance.



Differential Pressure Transducer DP 150 Multi-Range Series

DP 150 key features include:

- Universal design
- IP67-rated housing
- Field selectable
- Field-configurable duct probe
- Four-digit LCD
- Field-selectable range and output
- Simple five-step setup
- Field accessible push-button zero and span
- External mounting tabs and optional DIN rail
- Unregulated AC/DC operation
- Three-year warranty

The Johnson Controls DP 150 combines the flexibility of a multi-range transducer with the performance of a single-range transducer. Its universal design provides flexibility while on the job site. The DP 150 has eight selectable ranges and three selectable outputs, easily adjustable in the field with a simple flip of a switch or jumper. The DP 150 uses an IP67-rated housing and has a conduit fitting for simple wiring, making it a great solution for any general HVAC application.



Low Differential Pressure Transducer DP 140 Series

DP 140 key features include:

- Excellent price-to-performance ratio
- Reduces installation costs
- ± 0.25 percent, ± 0.4 percent, ± 1 percent FS accuracy options
- 24 VDC or 24 VAC excitation
- Voltage or analog outputs
- Reverse wiring protection
- Internal regulation
- Fire-retardant case (UL 94 V-0 approved)
- CE and RoHS compliant
- Three-year warranty

The Johnson Controls DP 140 is a low differential pressure transducer that uses a dead-ended capacitive sensing element that requires minimal amplification and delivers strong accuracy and long-term stability. It delivers ± 1 percent FS accuracy with ± 0.25 percent and ± 0.5 percent accuracy options with pressure ranges from 0.25" WC up to 100" WC. The DP 140 has a compact design, an AC power option, and an optional conduit cover that allows for simple, secure installation. It is a high-value solution designed to reduce installation costs and increase operating efficiency.



Low Differential Pressure Transducer DP 180 Series

DP 180 key features include:

- 3.5-digit LCD display with 0.5 percent FS accuracy
- NEMA 4-rated housing
- Optional static pressure probe
- PG-9, PG-13 or conduit electrical termination
- 24 VAC or 24 VDC excitation
- CE and RoHS compliant
- Suitable for harsh environments
- ± 0.25 percent, 0.4 percent, 0.5 percent, 1 percent FS accuracy
- Three-year warranty

The Johnson Controls DP 180 offers a rugged, highly accurate, low differential pressure transducer that provides optimum precision. It delivers accuracies of ± 1 percent FS (without display), ± 0.5 percent FS (with display), and optional ± 0.25 percent FS and ± 0.4 percent FS accuracies, and pressure ranges from 0.1" WC up to 100" WC. The DP 180 is housed in a secure, NEMA 4-rated enclosure and has an optional static pressure probe to reduce installation costs. The DP 180 is offered with an optional LCD display and a standard accuracy of ± 0.5 percent, making it ideal for applications requiring high accuracy.



About Johnson Controls

At Johnson Controls, we transform the environments where people live, work, learn and play. From optimizing building performance to improving safety and enhancing comfort, we drive the outcomes that matter most. We deliver our promise in industries such as healthcare, education, data centers and manufacturing. With a global team of 105,000 experts in more than 150 countries and over 130 years of innovation, we are the power behind our customers' mission. Our leading portfolio of building technology and solutions includes some of the most trusted names in the industry, such as Tyco®, York®, Metasys®, Ruskin®, Titus®, Frick®, Penn®, Sabroe®, Simplex®, Ansul® and Grinnell®.

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Sensor Series capabilities at www.johnsoncontrols.com