

SDX

Analog Pressure Transducer

The Stevens SDX (Submersible Depth Transmitter) is a pressure sensor that delivers accurate results while still remaining very affordable for a wide range of level measurement applications.

High impact, corrosion-resistant PVC Type II housing and potted electronics make the SDX extremely durable for most water and hostile fluid environments. The SDX is also an excellent choice for level measurement application that may put more expensive sensors at risk for damage.

The SDX comes equipped with user specified vented cable lengths. The vent provides an atmospheric reference for the sensor, which is necessary for ensuring the highest possible accuracy when making a level measurement.

The SDX features one 4-20 mA analog output signal that corresponds linearly to range. Compatible with existing power and data logging instruments, the SDX can easily be deployed for data collection at remote monitoring sites.

The sensor housing integrates pipe threads for securely mounting the SDX into pipes, tanks, or other applications.



STEVENS
MEASUREMENTS TO MIND

FEATURES

- Rugged housing and fully potted electronics—not damaged by freezing water
- Compact size
- Accuracy of $\pm 0.25\%$ full span
- Analog output (4-20 mA)
- Vented cable, 2 wire, with drain
- Weighted copper nose cone

APPLICATIONS

- Well Monitoring
- Ground water monitoring
- Surface water monitoring
- Tank level monitoring
- Soil & ground water remediation
- Lake, river, and wetland studies
- Environmental impact and research studies
- Water level for flow calculations



OPTIONAL DESICCANT CARTRIDGE

The SDX is a “Wet-Wet” device. While it is important to keep the SDX cable’s vent tube unobstructed for barometric pressure compensation, neither the pressure transducer nor internal electronics are damaged by condensation or moisture entering the vent tube. For best results, Stevens recommends the desiccant cartridge with vent tube adapter.

TECHNICAL SPECIFICATIONS

| | |
|---------------------------------------|---|
| Power requirements | 9 - 26 VDC |
| Output | 4-20 mA current signal, linearly corresponding to range |
| Operating temperature | -40° F to 185° F (-40° C to 85° C) |
| Compensated temperature | 32° F to 122° F (0° C to 50° C) |
| Linearity | 0-2.5 ft range: 0.2% max. 0-5 ft range: 0.2% max. 0-10 ft range: 0.2% max. 0-35 ft range: 0.3% max. 0-50 ft range: 0.3% max. (0.1% typical for all ranges) |
| Repeatability & hysteresis | Typical: $\pm 0.2\%$ span |
| Reverse polarity protection | Built into sensor |
| Overpressure | 0-2.5 ft: 20 psi max. (46 ft.) 0-5 ft: 20 psi max. (46 ft.) 0-10 ft: 20 psi max. (46 ft.) 0-35 ft: 45 psi max. (103 ft.) 0-50 ft: 45 psi max. (103 ft.) |
| Shock | Qualification tested to 150 g |
| Pipe threading | 1/2-14 straight pipe thread (back of sensor housing near cable) 3/8-18 straight pipe thread (under removable copper nose-cone) |
| Dimensions | 4.00" L x 0.84" \varnothing (101.6 mm L x 21.33 mm \varnothing) |
| Weight | Probe: 2.37 oz (61.19 g) Cable: 0.43 oz (12.19 g) per foot (.4 g per cm) (weights are approximate) |

ORDERING INFORMATION

| PART # | DESCRIPTION |
|-----------|---|
| 93720-102 | SDX Pressure Transducer, 0-2.5 ft range w/o cable |
| 93720-105 | SDX Pressure Transducer, 0-5 ft range w/o cable |
| 93720-110 | SDX Pressure Transducer, 0-10 ft range w/o cable |
| 93720-135 | SDX Pressure Transducer, 0-35 ft range w/o cable |
| 93720-150 | SDX Pressure Transducer, 0-50 ft range w/o cable |
| 44049 | Vented cable, 2 wire, with drain |
| 93030-010 | Desiccant cartridge with vent tube adapter, 3.9" (10 cm) length |
| 93030-001 | Desiccant cartridge with vent tube adapter, 7.8" (20 cm) length |



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