



PT12 / SDI-12 SUBMERSIBLE PRESSURE/TEMPERATURE SMART SENSOR



FEATURES

- SDI-12 v1.3 interface and Modbus® RTU interface
- Small diameter
- Optional body lengths
- Twist open case
- Pressure and temperature
- 316 stainless steel, Viton® and Teflon® construction (*Titanium optional*)
- Polyethylene, polyurethane and FEP Teflon® cable options

DESCRIPTION

INW's patented AquiStar® PT12/SDI-12 submersible pressure sensor represents the latest in state-of-the-art level measurement technology. Building on years of successful experience, this industry standard SDI-12 v1.3 interface device offers great noise immunity, thermal performance and transient protection. In addition, this device returns temperature and time data and operates with low power.

The sensor's end cone is interchangeable with a 1/4" NPT inlet which allows for increased application use and easy hookup. The modular-designed AquiStar® PT12/SDI-12 sensor can be factory serviced and repaired saving on future upgrade and repair costs.

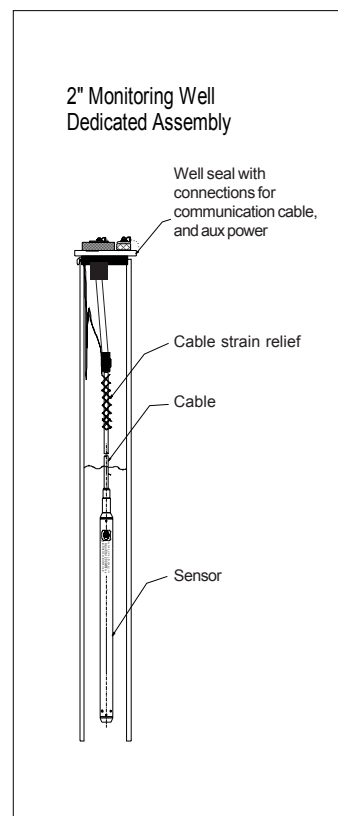
OPERATION

INW's PT12/SDI-12 submersible level sensor features an SDI-12 interface that makes the product easy to interface to SDI-12 recorders, can be daisy-chained on one cable up to 200 feet, and operates on low power. This makes it a preferred choice for many environmental professionals with existing SDI-12 systems. For further flexibility, this sensor features a Modbus® RTU communication interface.

The U.S.G.S. OSW accuracy enhanced calibration is an option on the 15 psig unit.

APPLICATIONS

Due to its rugged construction, the AquiStar® PT12 / SDI-12 Sensor can be used to replace analog sensors. Units can be used to monitor groundwater, well, tank and tidal levels, as well as for pump testing and flow monitoring.



**Instrumentation
Northwest, Inc.**

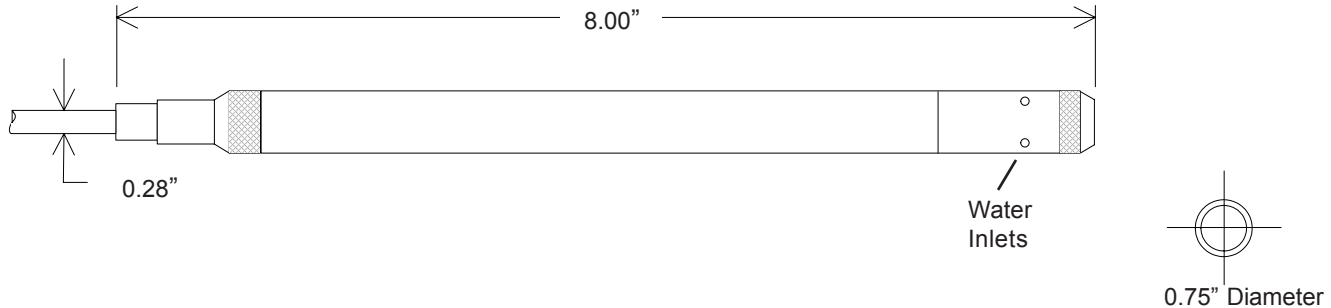
1-800-776-9355
<http://www.inwusa.com>



PT12 / SDI-12 SUBMERSIBLE

PRESSURE/TEMPERATURE SMART SENSOR

DIMENSIONS, SPECIFICATIONS, and ORDERING INFORMATION



ORDERING INFORMATION

PRESSURE RANGES

3C160	5 PSIG	3C166	50 PSIA
3C161	15 PSIG	3C167	100 PSIG
3C162	20 PSIA	3C168	100 PSIA
3C163	30 PSIG	3C169	300 PSIG
3C164	30 PSIA	3C170	300 PSIA
3C165	50 PSIG		

For titanium, add TTI to the end of the part number.

CABLES and REELS

6E540	Vented PU Cable
6E543	Vented FEP Cable
6E542	Vented PE Cable
6E544	Tefzel® Cable
6E520	200' Capacity reel
6E525	500' Capacity reel
6E530	1500' Capacity reel

MISCELLANEOUS

4R012T	End code adapter kit
6E410T	1/4" NPT adapter kit
6E517	Transducer cable strain relief kit
6E475	Desiccant tube refill bottle (blue gel beads) - 18 refills

Information in this document is subject to change without notice.

MECHANICAL

SENSOR

Body Material	316 stainless (Titanium option)
Wire Seal Materials	Viton® and Teflon®
Desiccant	High- & Standard-capacity packs
Terminating Connector	Available
Weight	.80 lbs.
Diameter	0.75 inches
Length	8 inches

CABLE

OD	0.28" maximum
Break Strength	138 lbs
Maximum Length	200 feet for SDI-12 2000 feet for Modbus®
Weight	4 lbs. per 100 feet

ELECTRICAL

PRESSURE

Static Accuracy (B.F.S.L. 25° C)	± 0.1% FSO (maximum) ± 0.06% FSO (typical) ± 0.06% available on request
Maximum Zero Offset at 25° C	± 0.25% FSO
Resolution	16 bit
Over Range Protection	2x (except 300 PSI and higher)
Compensated Temp. Range	0° C to 40° C
Operating Temp. Range	-5° C to 70° C
Storage Temp. Range	-20° C to 100° C Contact factory for extended temperature ranges.

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Instrumentation Northwest, Inc.

Sales and Service Locations

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