



PT2X SUBMERSIBLE PRESSURE/TEMPERATURE SMART SENSOR WITH DATA LOGGING



FEATURES

- RS485/RS232 interface
- Small diameter
- Twist open case
- Pressure, temperature & time
- 130,000+ records / non-volatile
- 316 stainless steel, Viton® and Teflon® construction
(Titanium optional)
- Polyethylene, polyurethane and FEP Teflon® cable options
- Cableless version available
- MODBUS® protocol for RTU & PLC applications
- Easy export to spreadsheets & databases

DESCRIPTION

INW's patented AquiStar® PT2X submersible pressure transmitter represents the latest in state-of-the-art level measurement technology. Building on years of successful experience, this industry standard digital RS485 interface device offers great noise immunity, thermal performance and transient protection. In addition, this device stores over 130,000 records of pressure, temperature and time data, operates with low power, and features easy to use software with powerful features.

The transmitter's end cone is interchangeable with a 1/4" NPT inlet which allows for increased application use and easy hookup. The modular-designed AquiStar® PT2X can be factory serviced and repaired saving on future upgrade and repair costs.

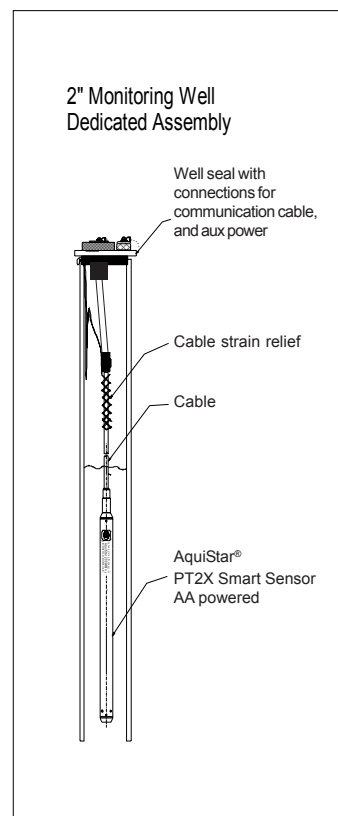
OPERATION

The PT2X is powered internally with two AA batteries or with an auxiliary power supply for data intensive applications. INW offers alkaline, rechargeable, and other auxiliary power systems. At the rate of four measurements per hour, the unit will run for a year on its internal AA batteries.

The PT2X comes with powerful, easy-to-use, Windows®-based Aqua4Plus software, affording the user extensive control, including real time monitoring, flexible programming, easy field calibration, and a delayed start feature. Aqua4Palm is available for Palm®-based handhelds, allowing the user to create test sessions, examine data, and monitor real time readings with the convenience and portability of a PDA.

APPLICATIONS

Due to its rugged construction, proven reliability, and datalogging capability, the AquiStar® PT2X can be used to replace analog sensors with separate dataloggers. Units can be used to monitor groundwater, well, tank and tidal levels, as well as for pump testing and flow monitoring.



**Instrumentation
Northwest, Inc.**

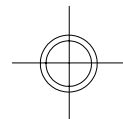
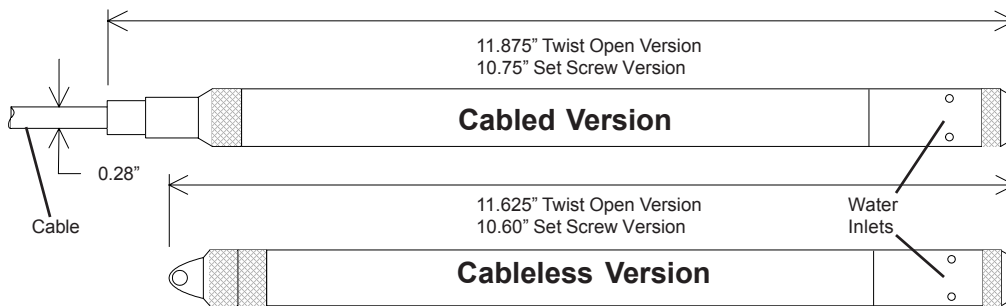
1-800-776-9355
<http://www.inwusa.com>



PT2X SUBMERSIBLE

PRESSURE/TEMPERATURE SMART SENSOR

DIMENSIONS, SPECIFICATIONS, and ORDERING INFORMATION



Diameter
0.75" Twist Open Version
0.84" Set Screw Version

MECHANICAL

TRANSMITTER

| | |
|------------------------------|--|
| Body Material | 316 stainless <i>Call for titanium availability</i> |
| Wire Seal Materials | Viton® and Teflon® |
| Desiccant | High- & Standard-capacity packs |
| Terminating Connector | Available |
| Weight | .80 lbs. |

CABLE

| | |
|-----------------------|---------------------|
| OD | 0.28" maximum |
| Break Strength | 138 lbs |
| Maximum Length | 2000 feet |
| 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 |
| | <i>Contact factory for extended temperature ranges.</i> |

| ---- Sensors ---- | | | | | | | | |
|---|---------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--|---------------------------------------|---------------------------------------|---------------------------------------|
| Ranges (call for others) | 316 Stainless Steel | | | | | | Titanium | |
| | Cabled | | Cableless | | | | Cabled | Cableless |
| | Twist Open 0.75" diam. 0.1% FSO | Set Screw 0.84" diam. 0.1% FSO | Twist Open 0.75" diam. 0.1% FSO | Set Screw 0.84" diam. 0.1% FSO | Twist Open 0.75" diam. 0.25% FSO | Set Screw 0.84" diam. 0.25% FSO | Twist Open 0.75" diam. 0.1% FSO | Twist Open 0.75" diam. 0.1% FSO |
| 1 PSIG | -- | 3C348 | -- | -- | -- | -- | -- | -- |
| 2.5 PSIG | -- | 3C349 | -- | -- | -- | -- | -- | -- |
| 5 PSIG | 3C351T* | 3C351 | -- | -- | -- | -- | 3C351TTi** | -- |
| 15 PSIG | 3C352T | 3C352 | -- | -- | -- | -- | 3C352TTi | -- |
| 20 PSIA | 3C363T | 3C363 | 3C370T | 3C370 | 3C377T | 3C377 | -- | -- |
| 30 PSIG | 3C353T | 3C353 | -- | -- | -- | -- | 3C353TTi | -- |
| 30 PSIA | 3C354T | 3C354 | 3C371T | 3C371 | 3C378T | 3C378 | 3C354TTi | 3C371TTi |
| 50 PSIG | 3C355T | 3C355 | -- | -- | -- | -- | -- | -- |
| 50 PSIA | 3C356T | 3C356 | 3C372T | 3C372 | 3C379T | 3C379 | -- | -- |
| 100 PSIG | 3C357T | 3C357 | -- | -- | -- | -- | -- | -- |
| 100 PSIA | 3C358T | 3C358 | 3C373T | 3C373 | 3C380T | 3C380 | -- | -- |
| 300 PSIG | 3C359T | 3C359 | -- | -- | -- | -- | -- | -- |
| 300 PSIA | 3C360T | 3C360 | 3C374T | 3C374 | 3C381T | 3C381 | -- | -- |
| | * 0.16% | | | | | | ** 0.25% | |
| ---- Cable ---- | | | | | | | | |
| 6E540 9-conductor PU | | | 6E542 9-conductor PE | | | 6E543 9-conductor FEP | | 6E544 9-conductor Tefzel |
| ---- Options and Accessories ---- | | | | | | | | |
| 6E410 1/4" NPT adapter | | | 6E517 Cable strain relief kit | | | 6E475 Desiccant tube refill | | |
| 6E520 200' capacity reel | | | 6E525 500' capacity reel | | | 6E530 1500' capacity reel | | |
| 3P902 4" well seal adapter | | | 3P904 4" well seal adapter | | | 3B830 RS485/RS232 adapter | | |
| 3B385 Interface cable | | | 6D150 Aqua4Palm Kit with Palm® | | | 6D151 Aqua4Palm Kit w/o Palm® | | |
| 3B847 Communication kit (RS485/RS232 adapter), Interface cable, Aqua4Plus Software Media Kit) | | | | | | | | |

Information in this document is subject to change without notice.

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