

Datalogging Water Quality Sensor

AquiStar® PT2X Submersible Pressure/Temperature Smart Sensor with Data Logging

Measure and record pressure/level, temperature, and time with this easy-to-use yet powerful and accurate AquiStar® PT2X Smart Sensor! Great almost anywhere you need to measure level and temperature – whether it be in a lake, in a tank, or in a well.

FEATURES

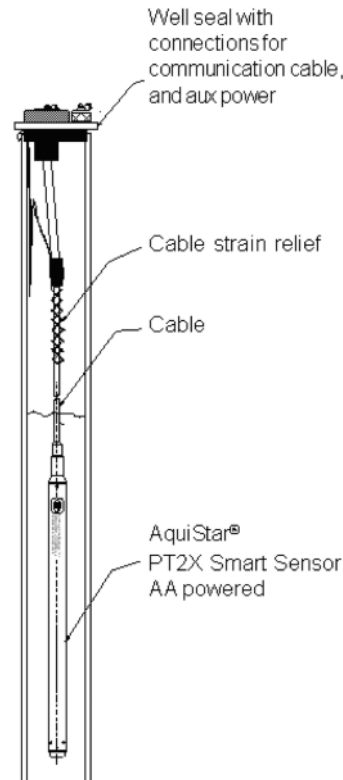
Sensor

- Measures and records pressure/level, temperature, and time
- Low power – field replaceable AA batteries, alkaline or lithium
- Modbus® RTU (RS485) and SDI-12 interface – for greater flexibility
- Thermally compensated – great where water temperatures vary, such as in streams or in industrial tank applications
- ± 0.05% FSO typical accuracy
- Small diameter – 0.75" (1.9 cm)
- Wireless connectivity – radios and/or cellular
- Barometric compensation utility for use with absolute sensors
- Free, easy-to-use software
- Absolute, gauge, or sealed gauge
- External power options (12 VDC) with AA's acting as backup
- 316 SS, Viton®, PTFE construction (titanium optional)

Datalogger

- 520,000 record
- Non-volatile memory – no data loss in the event of a power failure
- Flexible, multi-phase logging sequences – save sequences to disk to reuse in the future
- Pause logging feature – temporarily pause the logging while repositioning or transporting sensor
- Delayed start feature – state a specific future start time, making it easy to set several sensors to start at the same time

TYPICAL INSTALLATION



APPLICATIONS

- Pump and slug tests
- River, stream, reservoir gauging
- Stormwater runoff monitoring
- Wetland monitoring
- Well, tank, tidal levels
- Resource administration



CALL GEOTECH TODAY (800) 833-7958

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Datalogging Water Quality Sensor



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SPECIFICATIONS

General	Length	11.875" (30.2 cm) cabled 11.625" (29.5 cm) cableless
	Diameter	0.75" (1.9 cm)
	Weight	0.8 lb. (0.4 kg)
	Body Material	Delrin® & 316 stainless steel or titanium
	Wire Seal Materials	Viton® and PTFE
	Submersible Cable	Polyurethane, polyethylene, or FEP available
	Protection Rating	IP68, NEMA 6P
	Desiccant	1-3mm indicating silica gel (<i>high or standard capacity</i>)
	Terminating Connector	Available
	Communication	RS485 Modbus® RTV SDI-12 (ver.1.3)
	Direct Modbus Read Output	32-bit IEEE floating point
	SDI-12 Output	ASCII
	Internal Math	32-bit floating point

Operating Temp. Range³ -15°C to 55°C
Storage Temp. Range¹ -40°C to 80°C

Logging	Memory	4MB – 520,000 records
	Log Types	Variable, user-defined, logarithmic, profiled
	Programmable Baud Rate	9600, 19200, 38400
	Logging Rate	8x/sec maximum
	Software	Complimentary Aqua4Plus or Aqua4Push
	Networking	32 available addresses per junction w/batching capabilities (<i>up to 255</i>)
	File Formats	.xls/.csv/.a4d

Power	Internal Battery	2 x 1.5V AA Alkaline ²
	Auxiliary Power	12 VDC – <i>Nominal</i> 6-15 VDC – <i>Range</i>
	Expected Alkaline Battery Life	18 months at 15m polling interval ⁶

Temperature	Element Type	Digital IC on board
	Accuracy	±0.5°C
	Resolution	0.1°C
	Range	-40°C to 80°C
	Units	Celsius, Fahrenheit, Kelvin
Level	Transducer Type	Silicon strain gauge
	Transducer Material	316 stainless steel or titanium
	Pressure Ranges	
	<i>Gauge</i>	<i>FtH₂O⁵</i> – 2.3, 5.8, 12, 35, 69, 115, 231, 692 <i>mH₂O⁵</i> – 0.7, 1.75, 3.5, 10.5, 21, 35, 70, 210
	<i>Absolute</i>	<i>FtH₂O⁵</i> – 46, 69, 115, 231, 692 <i>mH₂O⁵</i> – 14, 21, 35, 70, 210
	Units	PSI, ftH ₂ O, inH ₂ O, cmH ₂ O, mmH ₂ O, mH ₂ O, inHg, cmHg, mmHg, Bars, mBars, kPa
	Static Accuracy	±0.05% FSO – <i>typical</i> ±0.1% FSO – <i>maximum</i> (<i>B.F.S.L. 20°C</i>)
	Resolution	0.0034% FS – <i>typical</i>
	Max Zero Offset	±0.25% FSO (@ 25°C)
	Max Operating Pressure	1.1 x FS
Burst Pressure ⁴	3.0 x FS	
Compensated Range	0°C to 40°C	

- 1 Storage without batteries
- 2 Lithium available upon request
- 3 Requires freeze protection kit if in water below freezing
- 4 Burst reduced at PSI>300
- 5 Higher Pressure ratings available upon request
- 6 May vary due to environmental factors

Information in this document is subject to change without notice.



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