

Datalogging Water Quality Sensor

AquiStar™ PT2X-BV Barometric/Vacuum Sensor with Datalogging

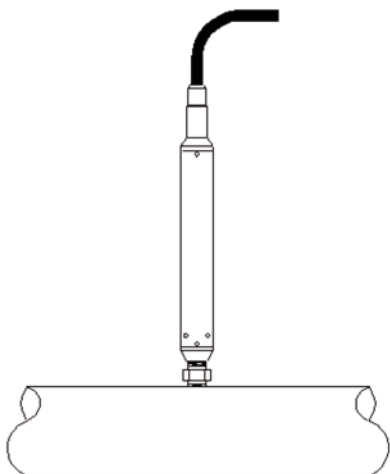
Built on the PT2X Pressure & Temperature Smart Sensor platform, the PT2X-BV is an ideal barometric reference for absolute versions of PT2X pressure sensors.

Storing over 130,000 records of pressure, temperature and time data, this sensor features easy-to-use software and operates on low power – using two AA batteries during normal output or an auxiliary power supply for data-intensive applications.

FEATURES

- Use with absolute pressure sensors – *no desiccant tubes required!*
- Measures and records barometric pressure/vacuum, temperature, and time
- Low power – *field replaceable AA batteries*
- Modbus® RTU (RS485) and SDI-12 interface – *great flexibility*
- Thermally compensated
- $\pm 0.05\%$ FSO typical accuracy
- 520,000 record non-volatile memory – *no data loss in the event of a power failure*
- Wireless connectivity – *radios and/or cellular*
- Barometric compensation utility for use with absolute pressure sensors
- Free, easy-to-use software

NPT INSTALLATION OPTION



APPLICATIONS

- Barometrically compensate absolute pressure sensors for level measurement
- Measure vacuum pressure during vapor extraction pilot testing
- Supplement aquifer test data in leaky or confined conditions

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

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SPECIFICATIONS

General

Weatherproof Box

Enclosure Material	ABS – IP66/67
Dimensions (box)	4.3" x 3.1" x 2.5" (10.9 x 7.9 x 6.4 cm)
Dimensions (Including Connectors)	4.3" x 3.6" x 2.5" (10.9 x 9.1 x 6.4 cm)
Wire Seal Materials	Fluorocarbon and Buna N
Desiccant	High- and standard-capacity packs

Tube

Body Material	Acetal & 316 stainless steel or titanium
Dimensions (Cabled)	12.025" x 0.75" diameter (30.5 cm x 1.9 cm)
Dimensions (Cableless)	11.775" x 0.75" diameter (29.9 cm x 1.9 cm)
Wire Seal Materials	Fluoropolymer and PTFE
Desiccant	High- and standard-capacity packs
Terminating Connector	Available
Weight	0.80 lbs. (0.4 kg)

Submersible Cable Polyurethane, polyethylene,
or ETFE

Protection Rating IP68, NEMA 6P

Communication RS485 Modbus® RTU
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 -20°C to 60°C

Storage Temp. Range¹ -40°C to 80°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 May vary due to environmental factors

Information in this document is subject to change without notice.

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 (up to 255)

File Formats .xls/.csv/.a4d

Power

Internal Battery 2 x 1.5V AA Alkaline²

Auxiliary Power 12 VDC – *Nominal*
6-15 VDC – *Range*

Exp. Alkaline Battery Life 18 months at 15m polling interval⁵

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

Pressure

Transducer Type 16 PSIA (1102 mBar)
silicon strain gauge

Transducer Material 316 stainless steel or titanium

Units PSI, ftH₂O, inH₂O, cmH₂O,
mmH₂O, mH₂O, inHg, cmHg,
mmHg, Bars, mBars, kPa

Static Accuracy ±0.05% FSO – *typical*
±0.1% FSO – *maximum*
(B.F.S.L. 20°C)

Resolution 0.0034% FS – *typical*

Max Operating Pressure 1.1 x FS

Burst Pressure⁴ 2.0 x FS

Compensated Range 0°C to 40°C



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