PT2X-BV Barometric / Vacuum Sensor

WITH DATA LOGGING





APPLICATIONS

Barometrically compensate absolute pressure sensors for level measurement

Measure vacuum pressure during vapor extraction pilot testing

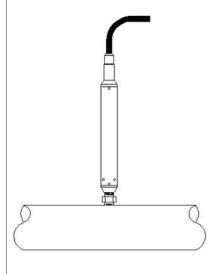
Supplement aquifer test data in leaky or confined conditions

Use with absolute pressure sensors – no desiccant tubes required!

Features

- 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
- ± 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

PT2X-BV Barometric/Vacuum Sensor with Data Logging



GENERAL

Weatherproof Box

ABS - IP66/67 **Enclosure Material Dimensions** 4.3" x 3.1" x 2.5" (box) $(10.9 \times 7.9 \times 6.4 \text{ cm})$ **Dimensions** 4.3" x 3.6" x 2.5" (incl. connectors) (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 Delrin® & 316 stainless steel

or titanium

Dimensions 11.875" x 0.75" diameter (30.2 cm x 1.9 cm) (cabled) 11.625" x 0.75" diameter **Dimensions** (cableless) (29.5 cm x 1.9 cm)

Wire Seal Materials Viton® and PTFE/FEP

Desiccant High- and standard- capacity packs

Terminating Connector Available

Weight 0.80 lbs. (0.4 kg)

Submersible Cable Polyurethane, polyethylene, or FEP

32-bit IEEE floating point

Protection Rating IP68, NEMA 6P Communication RS485 Modbus® RTU

SDI-12 (ver. 1.3)

SDI-12 Output **ASCII**

Direct Modbus Read Output

Internal Math 32 bit floating point Operating Temp. Range³ -20° C to 60° C Storage Temp. Range¹ -40° C to 80° C

LOGGING

Memory 4MB - 520,000 records Low Types

Variable, user-defined, logarithmic, profiled

Programmable Baud Rate 9600, 19200, 38400 Logging Rate 8x/sec maximum

Software Complimentary Aqua4Plus or

Aqua4Push

32 available addresses pre junction Networking

w/ batching capabilities (up to 255)

File Formats .xls / .cvs / .a4d **POWER**

Internal Battery 2x1.5V AA alkaline2 12VDC - Nominal **Auxiliary Power**

6 - 15VDC - Range

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

TEMPERATURE

Element Type Digital IC on board

 $\pm~0.5^{\circ}$ C **Accuracy** Resolution ± 0.1° C -40° C to 80° C Range

Units Celsius, Fahrenheit, Kelvin

PRESSURE

Transducer Type 16 PSIA (1102 mBar) silicon

strain guage

Transducer Material 316 stainless steel or titanium

PSI, FtH₂O, inH₂O, cmH₂O, Units

mmH₂O, mH₂O, inHg, cmHg, mmHg, Bars, mBars, kPa

± 0.5% FSO (typical) Static Accuracy

± 0.1% FSO (maximum)

(B.F.S.L. 20°C)

0.0034% FS (typical) Resolution

Maximum Operating Pressure 1.1 x FS Burst Pressure⁴ 20 x FS 0° C to 40° C Compensated Range

1 Storage without batteries

Lithium available upon request
Requires freeze protection kit if in water below freezing

4 Burst reduced at PSI>300

5 May vary due to environmental factors

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8902 122nd Avenue NE Kirkland, WA 98033 USA 425-822-4434 FAX 425-822-8384 / info@inwusa.com 4620 Northgate Boulevard, Suite 170 Sacramento, CA 95834 USA 916-922-2900 FAX 916-648-7766 / inwsw@inwusa.com

