

# PT12-BV

## BAROMETRIC/VACUUM SENSOR



### 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

Measure accurate barometric pressure

### Features

- Weatherproof box
- Automatic barometric compensator
- SDI-12 v1.3 interface and Modbus® RTU interface
- Pressure/vacuum and temperature
- Polyethylene, polyurethane, and ETFE cable options

The **Seametrics PT12-BV** comes as a weatherproof stand-alone box or with an automatic compensation wiring option. The PT12-BV measures pressure, temperature, and supply voltage.

The weatherproof box is an ideal barometric reference for absolute pressure sensors. This version features both an SDI-12 interface and a Modbus® RTU interface that makes the product easy to connect to recorders and operates on low power. This makes it a preferred choice for many environmental professionals with existing SDI-12 or Modbus® RTU systems.

With the Compensation Wiring Option, the PT12-BV automatically provides barometric compensation for a single attached absolute PT12 submersible pressure sensor. **No post processing of data. No need to use a vented cable or worry about maintaining desiccant tubes.** This version features an SDI-12 communication interface, making it ideal for many existing environmental systems.

**Contact Your Supplier**

## Specifications\*

<b>Housing</b>	<b>Material</b>	Weatherproof box - ABS - IP66/67	
	<b>Dimensions</b>	Box only: 4.3" x 3.1" x 2.5" (10.9 x 7.9 x 6.4 cm)	
	<b>Wire Seal Material</b>	Fluorocarbon and Buna N	
	<b>Communication Pigtail</b>	5 ft (1.5 m) polyurethane cable	
	<b>Options</b>	PT12-BV compensation wiring option; Bulkhead connector	
<b>Temperature</b>	<b>Operating Range</b>	Recommended: -15° to 55°C (5° to 131°F) Not designed to operate under water	
	<b>Storage Range</b>	-40° to 80°C (-40° to 176°F)	
<b>Power</b>	<b>Voltage</b>	9-15Vdc, electromagnetic & transient protection IEC-61000 - 4-3, 4-4, 4-5, 4-6	
	<b>Supply Current</b>	Active 3mA average/ 10mA peak; sleep 150 µA	
<b>Communication</b>	<b>Modbus®</b>	RS485 Modbus® RTU, output=32bit IEEE floating point	
	<b>SDI-12</b>	SDI-12 (ver. 1.3) - ASCII	
<b>Output Channels</b>		<b>Temperature</b>	<b>Pressure/Vacuum</b>
	<b>Element</b>	Digital IC on board	Silicon strain gauge transducer, 316 stainless
	<b>Accuracy</b>	±0.5°C — 0° to 55°C (32° to 131°F) ±2.0°C — below 0°C (32°F)	±0.05% FSO (typical, static) ±0.1% FSO (maximum, static) (B.F.S.L. 20°C)
	<b>Resolution</b>	0.06°C	0.0034% FS (typical)
	<b>Range</b>	-15° to 55°C (5° to 131°F)	0-16 psia (110 kpa)
	<b>Compensated</b>	---	0° to 40°C (32° to 104°F)
<b>Over pressure protection</b>	2x		
<b>Environmental</b>	IP66/67		

\*Specifications subject to change. Please consult our web site for the most current data ([seametrics.com](http://seametrics.com)). Modbus is a registered trademark of Schneider Electric.