

Ps-9 SERIES

BV9800 BAROMETRIC/VACUUM PRESSURE TRANSMITTER



FEATURES

- Compatible with Aquistar® dataloggers
- Quick-connect vacuum port
- Rentals available
- Thermally stable
- 16 PSIA (1102 mbar)

DESCRIPTION

INW's BV9800 is a barometric/vacuum pressure transmitter designed to provide accurate barometric and vacuum pressure measurements. Building on years of successful experience, this industry standard two-wire, 4-20 mA device offers excellent noise immunity, thermal performance and transient protection.

OPERATION

The BV9800 requires a datalogger or control system and 9 - 24 VDC excitation for operation; it achieves stability after a one-second warm-up time. The sensor comes equipped with an inlet quick-connect fitting that allows it to be easily attached to vacuum chambers, well seals or pipe systems. The internal electronic circuit controls the amount of current flowing through the loop based on the signal from the internal pressure sensor. The current flow increases linearly with pressure. At full-scale pressure (16 PSIA), the transmitter will draw 20 mA. A data acquisition/or control system then measures this current and computes the pressure.

PRIMARY APPLICATIONS

INW's BV-9800 barometric/vacuum sensor may be used to:

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



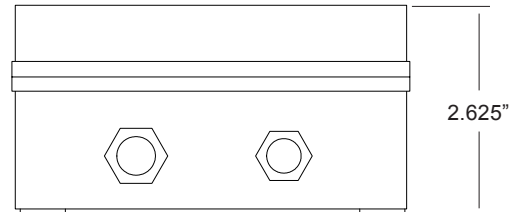
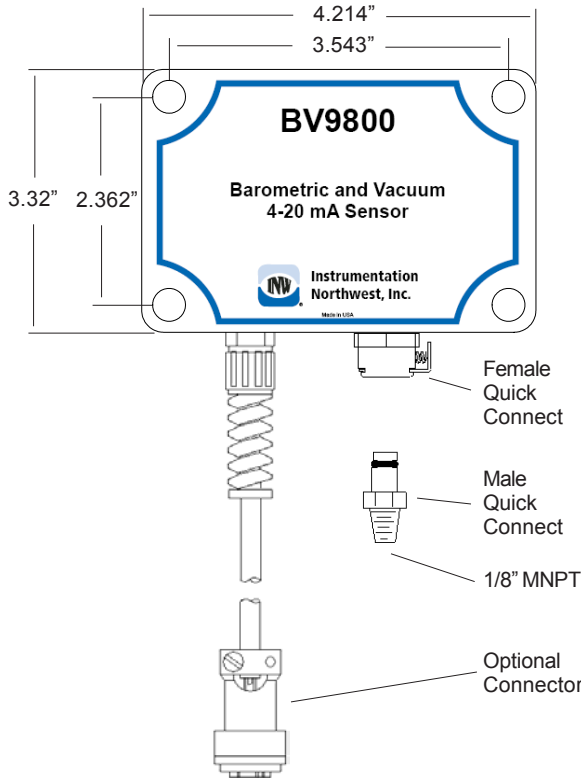
**Instrumentation
Northwest, Inc.**

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

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DIMENSIONS AND SPECIFICATIONS



HOW TO ORDER

- Specify cable length
- Choose appropriate options

BV9800 BAROMETRIC/VACUUM PRESSURE TRANSMITTER	
3C800	BV9800 Barometric/Vacuum Pressure Transmitter
BV9800 CABLE OPTIONS	
6E540	PU Cable (sold per foot; please specify length)
6E400	M6 Connector
MISCELLANEOUS	
6D250	Aquistar® DL-2 Data Collection System w/ Aqua4 Software

Information in this document is subject to change without notice.

MECHANICAL

TRANSMITTER

Body Material	ABS
Wire Seal Materials	Nylon and Neoprene
Inlet QC Materials	Delrin® and Buna-N
Weight	.45 lbs

CABLE

Conductor Type	9-conductor
OD	0.28" maximum
Break Strength	138 pounds
Maximum Length	2000 feet
Weight	4 lbs per 100 feet

ELECTRICAL

Tranmitter Voltage	9 - 24 VDC
Static Accuracy	± 0.1% FSO
Thermal Error	± 2.0% FSO
Hysteresis	0.01% (typical) 0.1% (max)
Pressure Range	0 - 16 PSIA
Operating Temperature	-5° C to 70° C
Range Output Current	4 - 20 mA
Pressure Overload	3X

Instrumentation Northwest, Inc.



Sales and Service Locations

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