



J & S Instruments, Inc.

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AS-160 & AS-165 BAROMETRIC PRESSURE SENSORS DATA SHEET

The AS-160 and AS-165 Barometric Pressure Sensors come with two ranges being 600 to 1100 mb and 800 to 1100 mb respectfully. These units offer an extremely high accuracy approach to measuring barometric pressure and allow the user through options to increase the packaging and output considerations. The AS-160 and AS-165 sensors offer use in non-condensing air or gas compatible with aluminum, alumina ceramics, gold, fluoro-carbon elastomers and Buna-N O-Ring. These units are intended for location in a protected environment such as an enclosure outdoors or in a building where the actual package is not exposed to the weather. A tube fitting allows the sensor to be extended to the outdoors by use of plastic tubing or other similar hollow devices should it be necessary in your installation though most buildings are found to have pressure leaks and so have the same barometric pressure both indoors and outdoors.

SPECIFICATIONS:	AS-160	AS-165
Range:	600 to 1100 mb	800 to 1100 mb
Accuracy:	<±0.05% FS	same
Stability:	<±0.1% FS	same
Time Constant:	<10mS	same
Temperature:	0 to 175° F	same
Supply Voltage:	24 VDC	same
Supply Current:	8mA	same
Output:	0.0 to 5.0 VDC	same
Cable:	4 conductor w/ shield, 24 gauge, 6 feet long	same
Dimensions:	3.27" L x 3.06" W x 2.6" D	same

OPTIONS:

On occasion, it will not be convenient to locate the AS-160 or AS-165 in a protected environment and so they will require special packaging. As an option, both of these units can be supplied in a NEMA 4 classified enclosure ready for mounting outdoors or in wet environments. This package will hold the sensor and provide for its input port to be extended outside of the enclosure via a barbed fitting and tubing. This enclosure will hold the sensor and the transmitter option (-T) offered below. To order this option, add the suffix -N to the device ordered part number.

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On occasion, it will not be convenient to have the output of the AS-160 or AS-165 as a DC voltage and will instead require a 4 to 20 mA output. As an option, both of these units can be fitted with a transmitter module that will provide for the voltage to current conversion to drive most common control units. The electronics package circuitry is encapsulated in vacuum degassed rubber to provide immunity to gasses, humidity and vibration for a rugged installation. To order this option, add the suffix -T to the device ordered part number.

SPECIFICATIONS:

-N

-T

Dimensions: 5.75" L x 4.00" W x 3.75" D
Rating: NEMA 4

Output: 14 to 20mA
Supply voltage: 24 VDC
Supply current: 250mA

The AS-160 and AS-165 Barometric Pressure Sensors come complete with a full **One Year** warranty against defects in materials or workmanship.

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