

## 110-WS-25 BP Barometric Pressure Sensor (aka 230-WS-32BP)

The NovaLynx **110-WS-25BP Barometric Pressure Sensor** uses a silicon capacitive sensing element and signal processing circuitry to sense changes in atmospheric pressure. The 0 to 5 volt output signal represents a measurement range of approximately 4.43 to 33.96 inHg (150 to 1150 mb). The sensor must be installed in a vented, rain-tight enclosure, or mounted indoors.

### Features

- Economical and accurate
- Measures absolute barometric pressure
- Wide range for use at any elevation
- 0-5 volt output



Measurement Range	15 to 115 kPa (approximate)
Max. Pressure Exposure	400 kPa (exposure beyond this limit may cause permanent damage to sensor)
Sensitivity	45.9 mV per kPa; 0.459 mV per 0.01 kPa (approximate)
Calibration Factor	0.0218 kPa per mV (generic slope, reciprocal of sensitivity) and 11.4 kPa (generic intercept)
Measurement Uncertainty	± 1.5 % (with generic calibration coefficients)
Measurement Repeatability	Less than 0.1 %
Non-linearity	Less than 1 %
Warm-up Time	20 ms
Response Time	1 ms
Temperature Response	Less than 0.002 % per C for temperatures greater than 0 C; -0,015 % per C for temperatures less than 0 C
Operating Environment	-40 to 80 C; 0 to 100 % relative humidity (non-condensing)
Input Voltage: <b>110-WS-25BP</b>	5.000 VDC regulated
Input Voltage: <b>110-WS-25BP-12</b>	12 VDC nominal
Output Voltage Range	0 to 5 V DC
Cable	Tinned leads, 24 AWG, 3 conductor shielded. 18" (46 cm)
Current Draw	7 mA DC
Dimensions	2" x 2" x 1.5" (51 x 51 x 38 mm)
Weight / Shipping	0.1 lb (45 g) / 0.4 lb (181 g)

### Ordering Information

110-WS-25BP      Barometric Pressure Sensor, 0-5 V output, 5Vreg supply  
 110-WS-25BP-12      Barometric Pressure Sensor, 0-5 V output, 12V supply