BP60 BAROMETRIC PRESSURE SENSOR

TECHNICAL PRODUCT SHEET



Tools Required

- 8 mm (5/16 inch) nut driver or wrench (electric nut driver preferred)
- · Small NRG screwdriver
- Sheet metal shears (for trimming hose clamps)

Recommended Maintenance

- Inspect the sensor body adn cable for wear and tear (annual).
- Review data against a reference to verify accuracy (annual).

Overview

The BP60 is well-suited for the barometric pressure measurement requirements of wind and solar energy studies, particularly as an input to air density, annual energy production estimates, and more reliable forecasts on operational solar and wind farms.

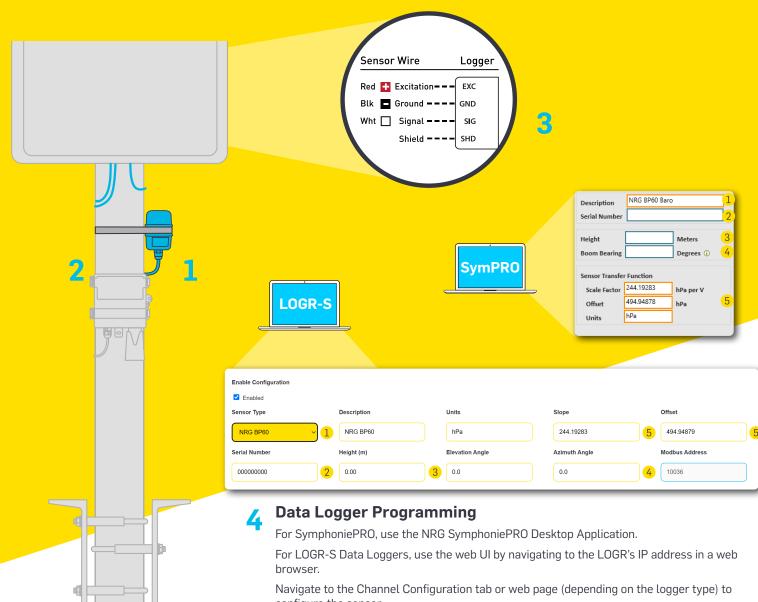
Specifications

Measurement Range	500 hPa to 1100 hPa (14.765 to 32.483 inches Hg)
Signal Type	Linear analog voltage
Transfer Function (only BP60C 's come with a unique calibration)	Absolute Pressure in hPa = (Voltage x 244.192829) + 494.948781 typical Absolute Pressure in inches Hg = (Voltage x 7.211029) + 14.615867 typical
Output Signal	0.020 to 2.480 VDC
Supply Voltage (uses pulsed excitation to minimize current draw)	5 to 15 VDC
Supply Current	1.25 mA max
Mounting	Mounts directly to tower with hose clamp or optional mounting bracket



BP60 Barometric Pressure Sensor Installation Process

- 1. Wrap the hose clamp around the tower (under the shelter box), insert the BP60 sensor and continue to tighten with nut driver until the sensor is secure. Do not over-tighten.
- 2. Trim the end of the hose clamp, or secure it in place so it does not move freely.
- 3. Wire the sensor cable into the data logger.
- 4. Program the data logger as outlined below.



For more information:

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ISO 9001: 2015 Certified ISO 14001: 2015 Self-Certified configure the sensor.

- 1. Choose "NRG BP60 Baro" from the sensor selection drop down menu.
- 2. Enter the sensor's serial number (found on the senor body).
- 3. Enter the height (elevation) of the sensors from the ground.
- 4. Enter the direction (azimuth) the sensor is installed on the tower.
- 5. For BP60C only: Enter the sensor's unique slope and offset-found on the sensor's calibration report.

