

BP20 BAROMETRIC PRESSURE SENSOR

TECHNICAL PRODUCT SHEET



Overview

The BP20 pressure sensor includes built-in temperature compensation, linearization, and an output amplifier. Its low cost and rugged ABS enclosure make the BP20 ideal for collecting absolute pressure data at remote sites.

Specifications

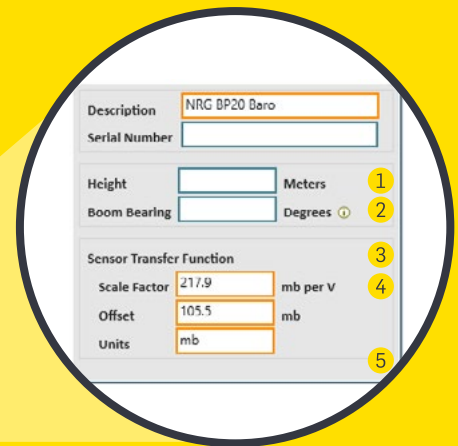
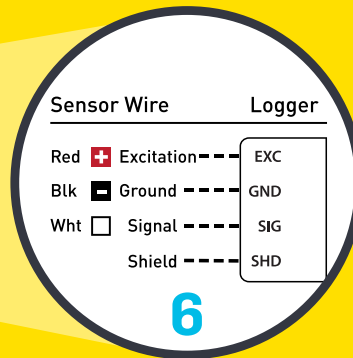
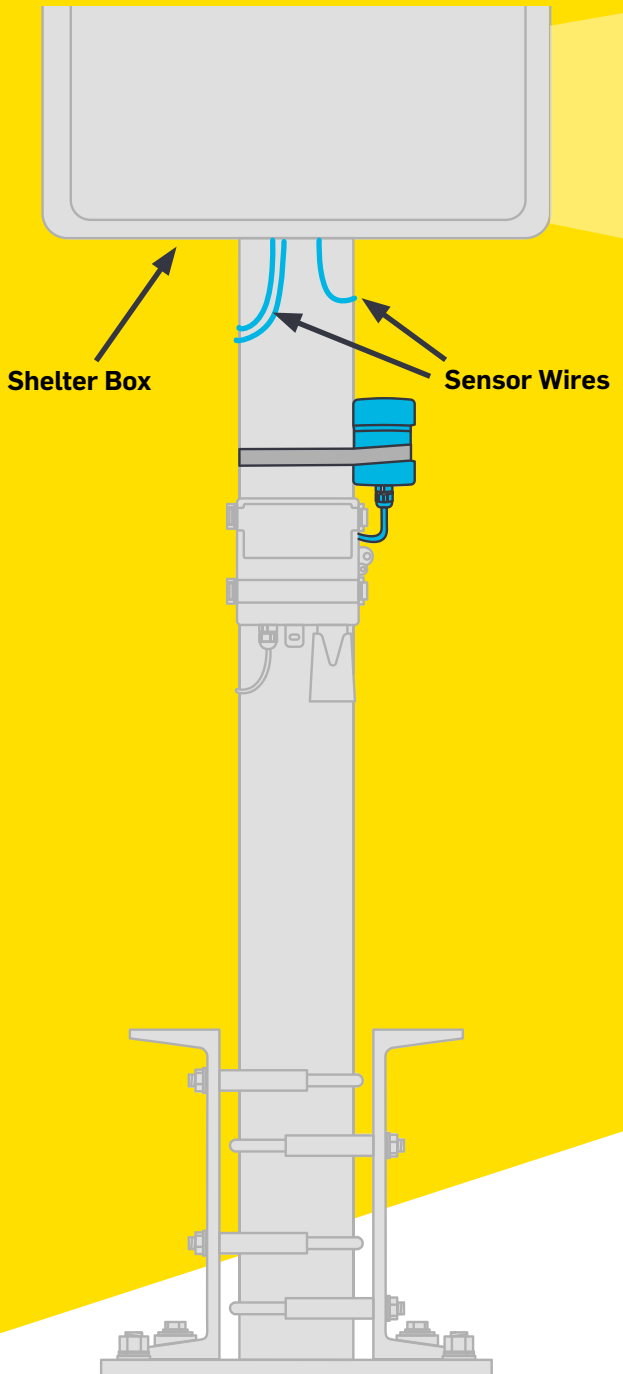
Measurement Range	15 kPa to 115 kPa (4.43 inches to 34.0 inches Hg)
Signal Type	Linear analog voltage
Transfer Function (Sensor comes with unique calibration)	Default Slope: voltage x 217.9 mb Default Offset: 10.55 mb
Output Signal	0.020 to 2.480 VDC
Supply Voltage	7 V to 35 V DC
Supply Current	15 mA max. (8 mA typical)
Mounting	Mounts directly to tower or inside steel shelter box with hose clamps (included)

Tools Required

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

BP20 Barometric Pressure Sensor Installation Process

1. Install the tower by following the applicable instruction sheet
2. Wrap the hose clamp around the tower (under the shelter box) and begin tightening it.
3. As the hose clamp tightens, insert the BP20 sensor and continue to tighten.
4. Tighten the hose clamp until the sensor is secure. Do not over tighten.
5. Trim the end of the hose clamp, or secure it in place so it does not move freely.
6. Wire the sensor cable into the data logger.



SymphoniePRO Logger Programming

Use the SymphoniePRO Desktop Application to program the sensor settings into the data logger:

1. Choose "NRG BP20 Baro" from the "Load From Defaults" drop down menu
2. Enter the sensor's serial number (found on the sensor body)
3. Enter the height of sensors from the ground.
4. Enter the direction the sensor is installed on the tower.
5. Enter the sensor's unique slope and offset—found on the sensor's calibration report. Report can be looked up by serial number here: [link!](#)

For more information:

NRG Technical Support
+1 802.482.2255
support@nrgsystems.com
nrgsystems.com
ISO 9001: 2015 Certified
ISO 14001: 2015 Self-Certified