

# 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

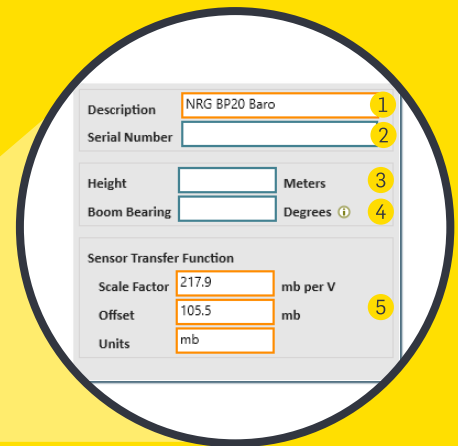
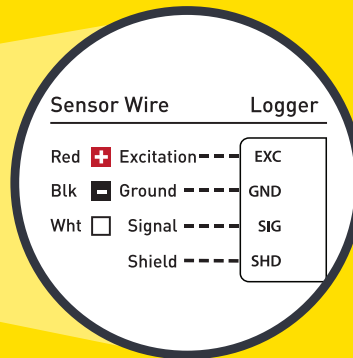
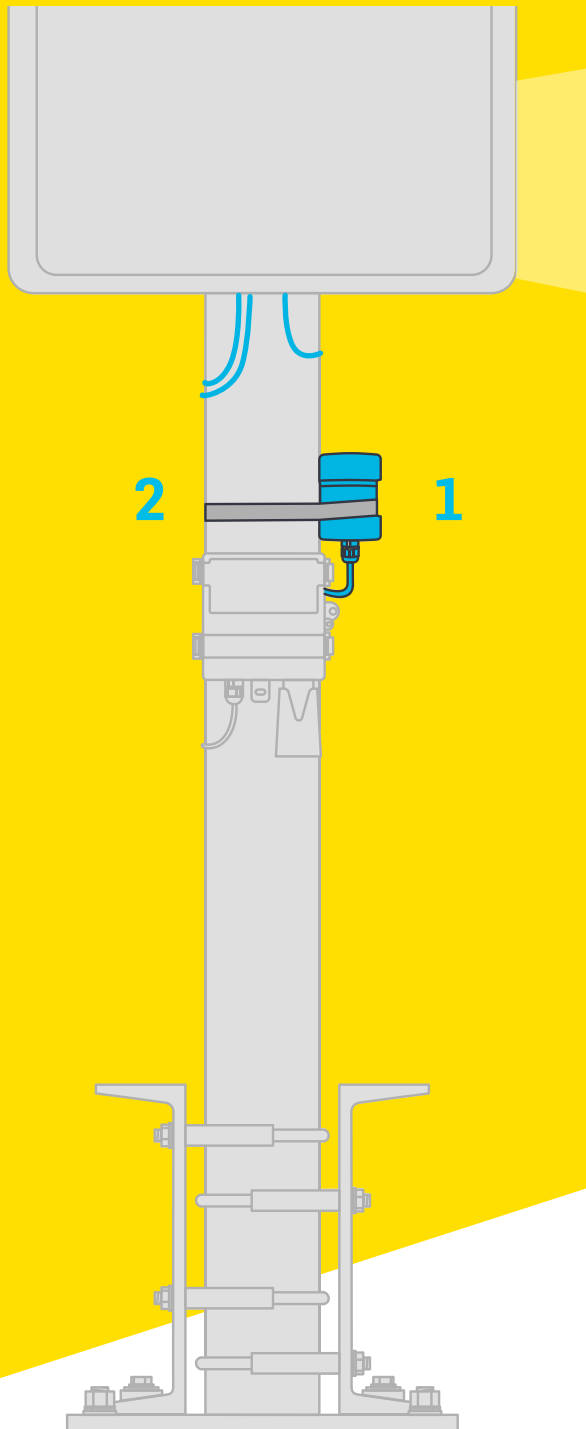
<b>Measurement Range</b>	15 kPa to 115 kPa (4.43 inches to 34.0 inches Hg)
<b>Signal Type</b>	Linear analog voltage
<b>Transfer Function</b> (Sensor comes with unique calibration)	Default Slope: voltage x 217.9 mb Default Offset: 10.55 mb
<b>Output Signal</b>	0 to 5 V
<b>Supply Voltage</b>	7 V to 35 V DC
<b>Supply Current</b>	15 mA max. (8 mA typical)
<b>Mounting</b>	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. Wrap the hose clamp around the tower (under the shelter box), insert the BP20 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 SymphoniePRO 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](#).

### For more information:

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ISO 9001: 2015 Certified  
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