# NRG PVT1 PV TEMPERATURE SENSOR TECHNICAL PRODUCT SHEET



# **Tools Required**

- Small NRG screwdriver
- · Alcohol prep wipes
- · Adhesive strain relief stickers

### **Recommended Maintenance**

- Inspect the sensor and overlay tape to verify that it is securely attached to the PV module (monthly).
- Inspect the sensor body and cable for wear and tear (annual).
- Review data against a reference to verify accuracy (annual).

## Overview

The NRG PVT1 module temperature sensor provides PV module temperature for PV performance monitoring. The sensor includes an adhesion kit for affixing the sensor to PV modules to ensure proper installation, and is compatible with the NRG SymphoniePRO data logger as well as data acquisition systems which can accept a 2- or 4- wire thermistor input.

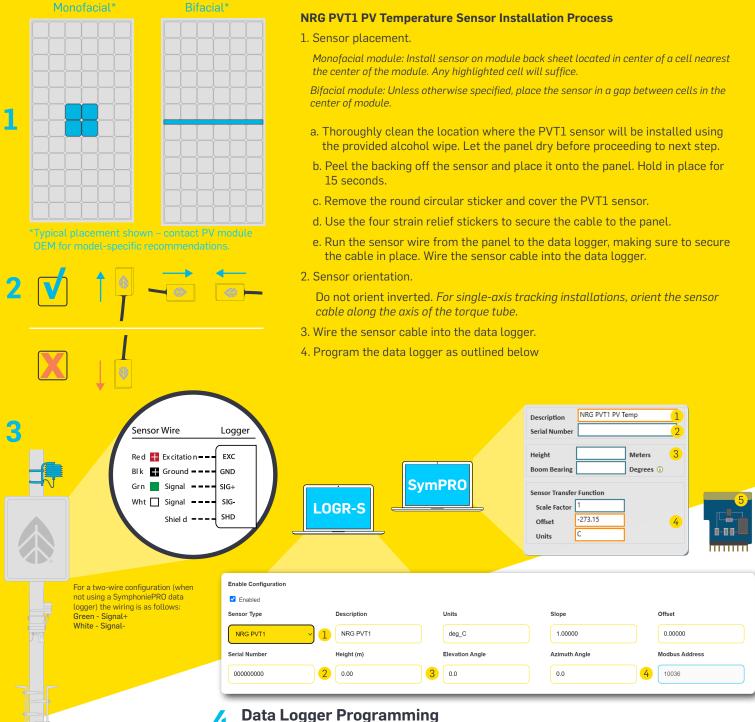
# **Specifications**

Measurement Range	-55 °C to 150 °C (-67 °F to 302 °F)
Signal Type	10 kΩ NTC thermistor
Transfer Function  Steinhart-Hart Coefficients (sensor can be programmed to offer temp in °F)	A = 0.001032 B = 0.0002387 C = 0.000000158
Accuracy	± 0.2 °C from 0 to 70 °C (±0.36 °F from 32 to 158°F)
Supply Voltage	N/A
Supply Current	15 μA maximum (supplied by logger)
Mounting	Attaches to back of PV panels with adhesive tape



Scan QR Code for the Installation Quick Guide Video





### For more information:

NRG Technical Support +1 802.482.2255 support@nrgsystems.com nrgsystems.com

ISO 9001: 2015 Certified ISO 14001: 2015 Self-Certified

For SymphoniePRO, use the NRG SymphoniePRO Desktop Application.

For LOGR-S Data Loggers, use the web UI by navigating to the LOGR's IP address in a web browser.

Navigate to the Channel Configuration tab or web page (depending on the logger type) to configure the sensor.

- 1. Choose "NRG PVT1 PV Temp" from the sensor selection drop- down menu.
- 2. Enter the sensor's serial number (found on the end of the sensor cable).
- 3. Enter the height (elevation) of sensors from the ground.
- 4. Enter the direction (azimuth) the sensor is installed on the tower.
- 5. If using a Symphonie PRO data logger, insert P-SCM 9420 into the appropriate P-SCM slot in the front of the logger.

