

# NRG 40C ANEMOMETER

## TECHNICAL PRODUCT SHEET



### Overview

The 40C is one of the first anemometers designed exclusively for the wind industry, and offers field-proven measurement accuracy at an economical price.

### Specifications

<b>Measurement Range</b>	1 – 96 m/s (2.2 – 215 mph)
<b>Signal Type</b>	Low level AC sine wave, frequency linearly proportional to wind speed
<b>Transfer Function</b>	Default Slope: 0.765 m/s per Hz Default Offset: 0.35 m/s
<b>Output Signal</b>	0 Hz to 125 Hz
<b>Supply Voltage</b>	None needed
<b>Supply Current</b>	N/A
<b>Sensor Cable</b>	2 conductor (2C), 20 AWG, Shielded
<b>Mounting</b>	13mm (0.5") diameter mast

### Tools Required

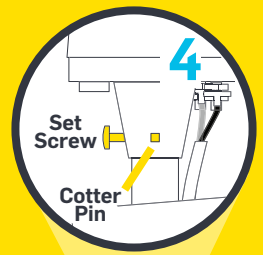
- #2 Phillips Screwdriver
- 1/4" Nut Driver
- Electrical Tape
- Small NRG Screw Driver
- 9/16" Wrench
- 5/16" Nut Driver



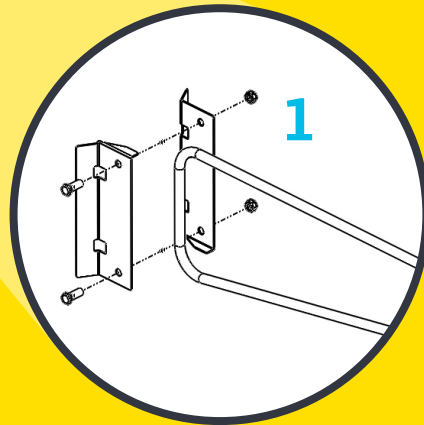
**NRG**Systems®

## 40C Anemometer Installation Process

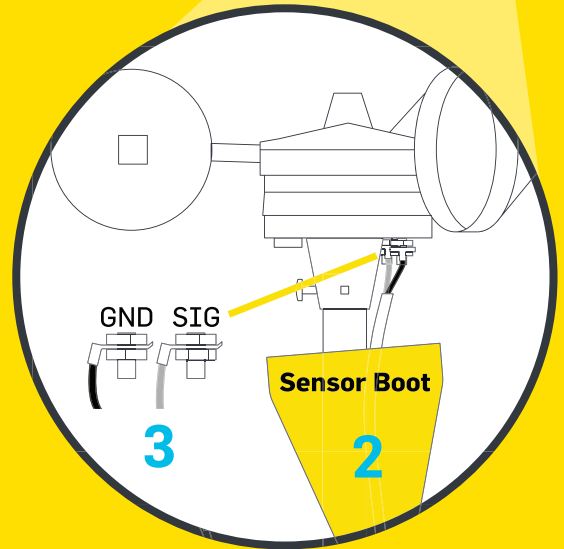
1. Install the 1.53m mounting boom according to the diagram. Use 9/16" wrench and socket to secure brackets to boom. Feed hose clamps through each bracket hole. Use 5/16" nut driver bit to secure boom to tower.
2. Place the sensor boot on the end of the mounting boom and run the cable through it.
3. Wire the two conductor (2C) sensor cable to the wind vane terminals. Use 1/4" nut driver to tighten nuts.
4. Secure the sensor to the boom by inserting the cotter pin and tightening the set screw with a Phillips screw driver.
5. Wrap and/or secure the cable along the boom and down the tower to the data logger.
6. Wire the sensor cable into the data logger wiring panel.
7. Program SymphoniePRO Logger.



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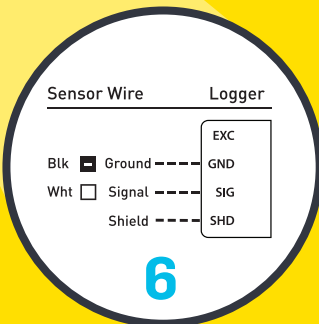
1



3

2

Sensor Boot



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## SymphoniePRO Logger Programming

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

1. Enter serial number
2. Enter height of anemometer cups
3. Enter direction the boom is pointing (Boom Bearing) in degrees
4. Enter the unique Scale Factor and Offset if the sensor has been calibrated in a wind tunnel.