

200M WIND VANE

TECHNICAL PRODUCT SHEET



Overview

The 200M Wind Direction Vane features a remarkably accurate sensing element that produces no dead band, achieving lower uncertainty and 360° continuous measurement.

Specifications

| | |
|--------------------------|---|
| Measurement Range | 0 - 360° |
| Signal Type | Analog DC Voltage |
| Transfer Function | Default Slope: 147.91/V Default Offset: -1.460 |
| Output Signal | 0.007 to 2.5 VDC |
| Supply Voltage | 4.5 to 15 VDC |
| Supply Current | 2.5 mA |
| Sensor Cable | 3 conductor (3C), 20 AWG, Shielded |
| Mounting | 13mm (0.5") diameter mast |



[Click for 200M Video](#)

Tools Required

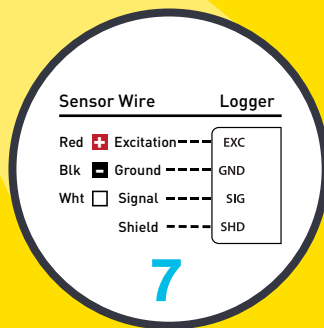
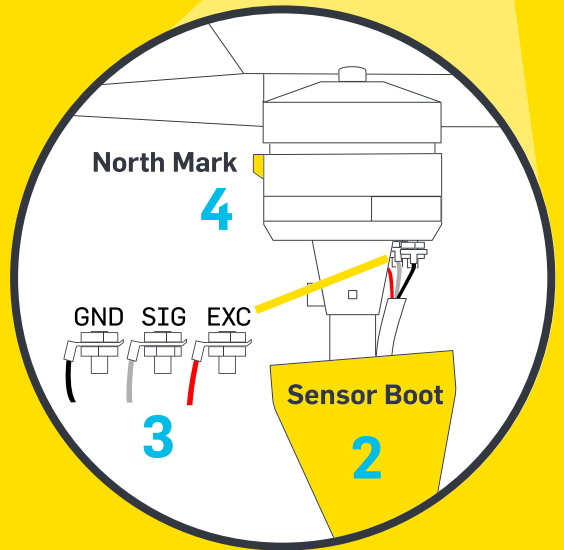
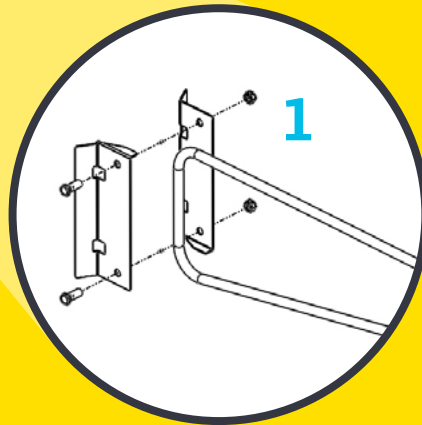
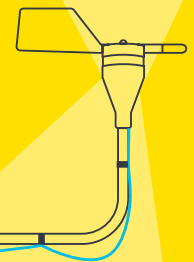
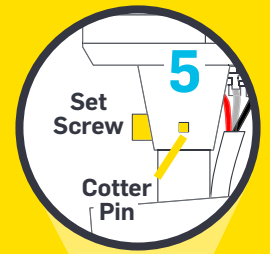
- #2 Phillips Screwdriver
- 1/4" Nut Driver
- Small Flathead Screwdriver
- 9/16" Wrench
- 5/16" Nut Driver



NRGSystems®

200M Wind Vane 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 three conductor (3C) sensor cable to the wind vane terminals. Use 1/4" nut driver to tighten nuts.
4. Place the sensor onto the end of the mounting boom, making sure the north mark on the body of the sensor is pointing down the boom, towards the tower.
5. Secure the sensor to the boom by inserting the cotter pin and tightening the set screw with a Phillips screw driver.
6. Wrap and/or secure the cable along the boom and down the tower to the data logger.
7. Wire the sensor cable into the data logger wiring panel.
8. Program SymphoniePRO Logger.



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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 vane nose
3. Enter boom bearing (direction the boom) in degrees
4. Leave vane mounting angle unchanged (180)
5. Update scale factor & offset with factory calibration report