

NRG S1 ANEMOMETER FOR WIND APPLICATIONS

TECHNICAL PRODUCT SHEET



Tools Required

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

Overview

This uniquely low cost, class 1 anemometer reduces measurement uncertainty in wind resource assessment campaigns and power performance testing.

Specifications

Measurement Range	0.6 to 75 m/s
Signal Type	Form: Square Wave Frequency: 532.9 Hz @ 50 m/s (112 mph) Amplitude: Equal to supply voltage, max. 15 V
Transfer Function	Refer to individual calibration report for anemometer transfer function. All NRG S1 anemometers are calibrated per IEC 61400-12-1, Annex F.
Output Signal	0 Hz to 800 Hz
Supply Voltage	5 to 28 VDC
Supply Current	0.9 mA at 12V
Sensor Cable	3C cable: Cable-Assy, S1, 3C, 22AWG, with the M12 connector
Mounting	Onto 25 mm (1") diameter mast with 2 set screws



S1 Anemometer Installation Process

1. Install the 2.4m 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. Feed the cable through the boom extension.
3. Connect the cable to the sensor using small profile 12 mm or ½ inch wrench
4. Place sensor on boom tip and tighten set screws on sensor with allen wrench.
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.

