



Introduction

The Thies Ultrasonic Anemometer 2D Model 4.3820.31.310 is an ultrasonic anemometer with 4-20 mA analog outputs for the wind speed and wind direction. These instructions explain how to use this sensor with a SymphoniePRO data logger.



Refer to manufacturer’s documentation for pin-out diagrams and for how to configure, test, and install these sensors.

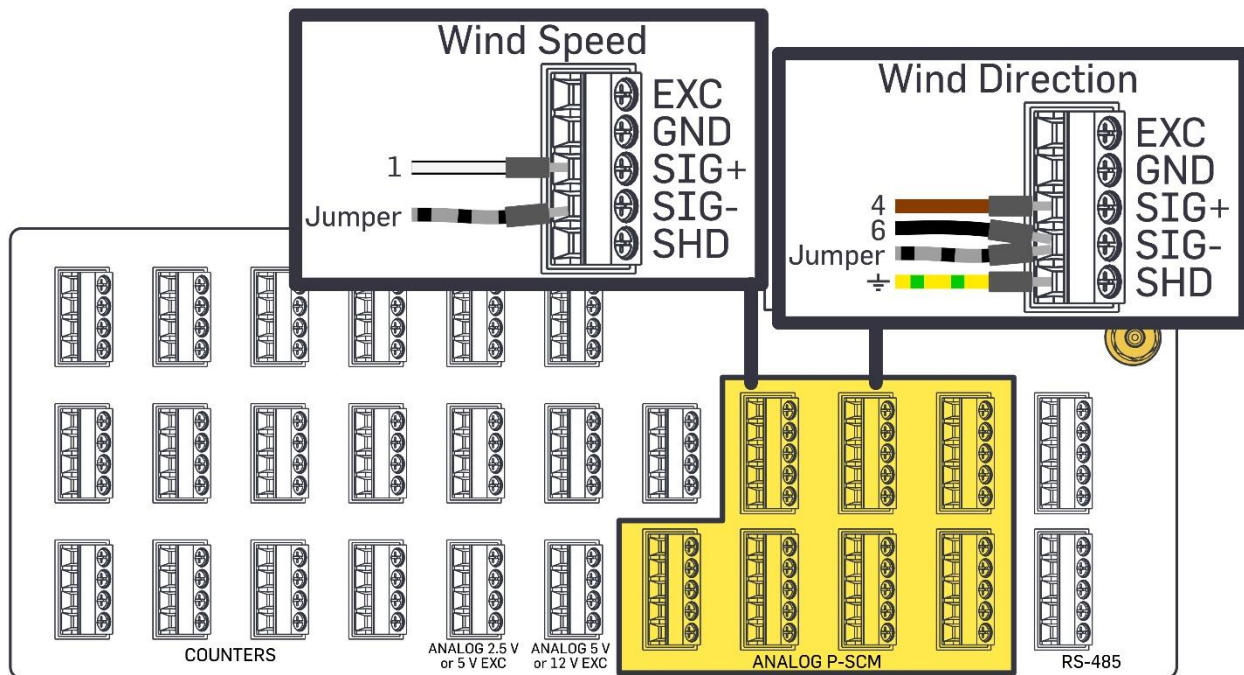


These instructions pertain to Thies Model 4.3820.31.310 ONLY. Do not use these instructions for any other model of Thies 2D Ultrasonic sensor.

Wiring Panel Connections

Thies Ultrasonic 2D 4.3820.31.310 can be connected to a SymphoniePRO logger wiring panel on P-SCM channels 20-26 with P-SCM #9137.

The black wire from Pin 6 is the signal ground for both the wind speed and wind direction, so a jumper wire must be used between the two SIG- terminals. The jumper is shown as a grey/black wire.



Note: NRG Systems makes an effort to maintain up-to-date information on wiring, but individual wire colors may be subject to change without notice.



Channel Configuration

1. Select “Statistics” or “Stats & Samples” from the **Data Logging Mode** drop-down.
2. Use “Analog” (default option) for **Channel Type**
3. Fill in **Description**, **Serial Number**, **Height**, and **Boom Bearing**, as appropriate.
4. Select P-SCM #9137 from the P-SCM drop-down in the right-most panel.
5. Under Sensor Transfer Function, complete the fields as follows:

Anemometer

Scale Factor = 3.7575

Offset = -15

Units = m/s

Wind Vane

Scale Factor = 22.5451

Offset = -90

Units = degrees