

APPLICATION NOTE

Connecting Vector A100 Series Sensors to Symphonie, SymphoniePLUS and SymphoniePLUS3 Loggers

It is possible to record data from Vector sensors using all Symphonie logger models. Below is a list of the necessary equipment, the logger settings, and a connection diagram.

Equipment:

- Anemometer models: A100L2, A100LK, A100LM, (the A100R/K anemometer is technically compatible but is not often used in wind resource assessment omitted from this document due to its coarse resolution)

Note: For **SymphoniePLUS3** loggers, use the **Universal Anemometer** channels 1-3 and 13-15 for improved power conservation (no SCM required).

- For Symphonie/SymphoniePLUS, use 3151 Digital Anemometer SCM in either channel 4, 5 or 6
- An iPack must be connected to power the anemometer
- Vane models: W200P, W200P/L
 - This vane will work with the logger's preconfigured vane channels – 7 or 8 – or with the 3172 Vane SCM in any analog channel, 9 – 12.
 - For SymphoniePLUS3 loggers, Flex channels 4, 5 and 6 can be used in addition to those listed above

Note: *Symphonie, SymphoniePLUS and SymphoniePLUS3 loggers have built-in compensation for NRG wind vanes; data from non-NRG wind vanes may be skewed by up to 2 degrees around the half-scale.*

Logger Settings:

| logger settings (all types) | | | | | |
|-----------------------------|------------|--------|--------|-------|---------|
| type | anemometer | | | vane | |
| model | A100L2 | A100LK | A100LM | W200P | W200P/L |
| slope | 0.0514 | 0.0514 | 0.1 | 0.351 | 0.351 |
| offset | 0.154 | 0.154 | 0.154 | - | - |

| anemometer connections | | |
|------------------------|----------------|-------------------------|
| sensor wire | SymphoniePLUS3 | Symphonie/SymphoniePLUS |
| signal (white) | SIG | Ctr + |
| ground (blue) | GND | Ctr - |
| excitation (red) | EXC | Sensor 12V |
| shield | SHD | Shields |

| vane connections | | |
|------------------|----------------|-------------------------|
| sensor wire | SymphoniePLUS3 | Symphonie/SymphoniePLUS |
| signal (green) | SIG | Vane Sig |
| ground (blue) | GND | Vane - |
| excitation (red) | EXC | Vane + |
| shield | SHD | Shields |

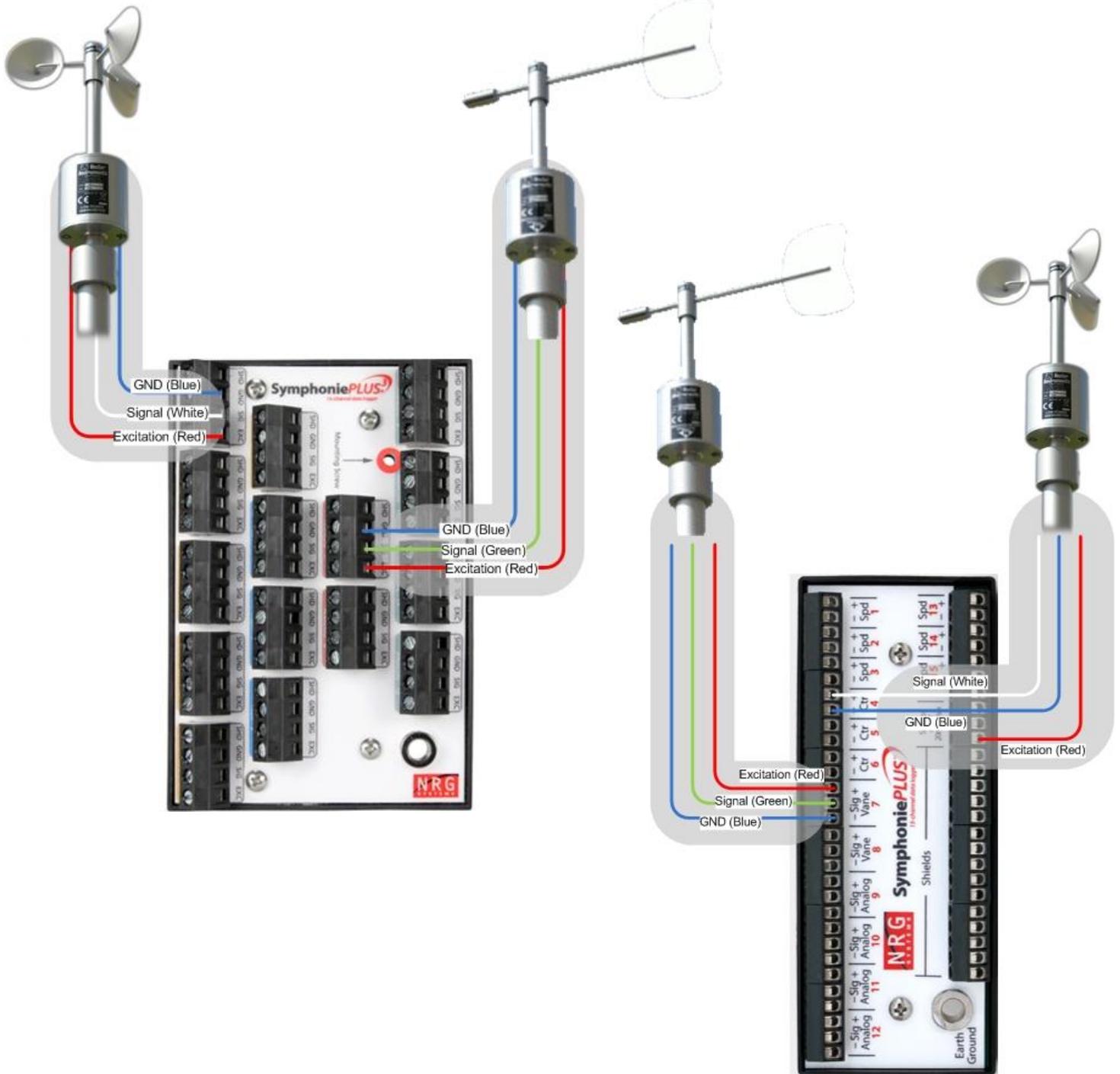
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Connections

- SymphoniePLUS3 (connections shown on channels 1 and 7)
- SymphoniePLUS (connections shown on channels 4 and 7)



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