



Connect third-party sensor using virtual AUX

Written By: Tanya Taylor





PARTS:

- [Vaisala weather sensor](#) (1)
- [Met One weather sensor](#) (1)
- [Gill Windsonic wind sensor](#) (1)

Step 1 — Overview



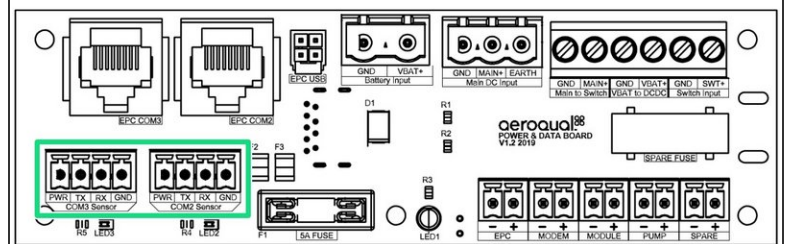
- If you bought your monitor after October 2019, you can easily connect the following third-party sensors using virtual AUX.
 - MSO weather station from Met One
 - WXT536 weather station from Vaisala
 - Windsonic from Gill Instruments
- However, the following third-party sensors [need to be manually wired to the AUX module](#).
 - MK427 noise meter from Cirrus
 - LI-200 Pyranometer from Li-Cor

Step 2 — Thread cable











- Thread the sensor's cable through a free cable gland on the outside of the monitor. The gland could be on a side wall or the underside of the monitor. It depends on the model.
- ❗ To check the operation of the third-party sensor in your office or laboratory prior to site installation, this step isn't mandatory.

Step 3 — Find communication ports



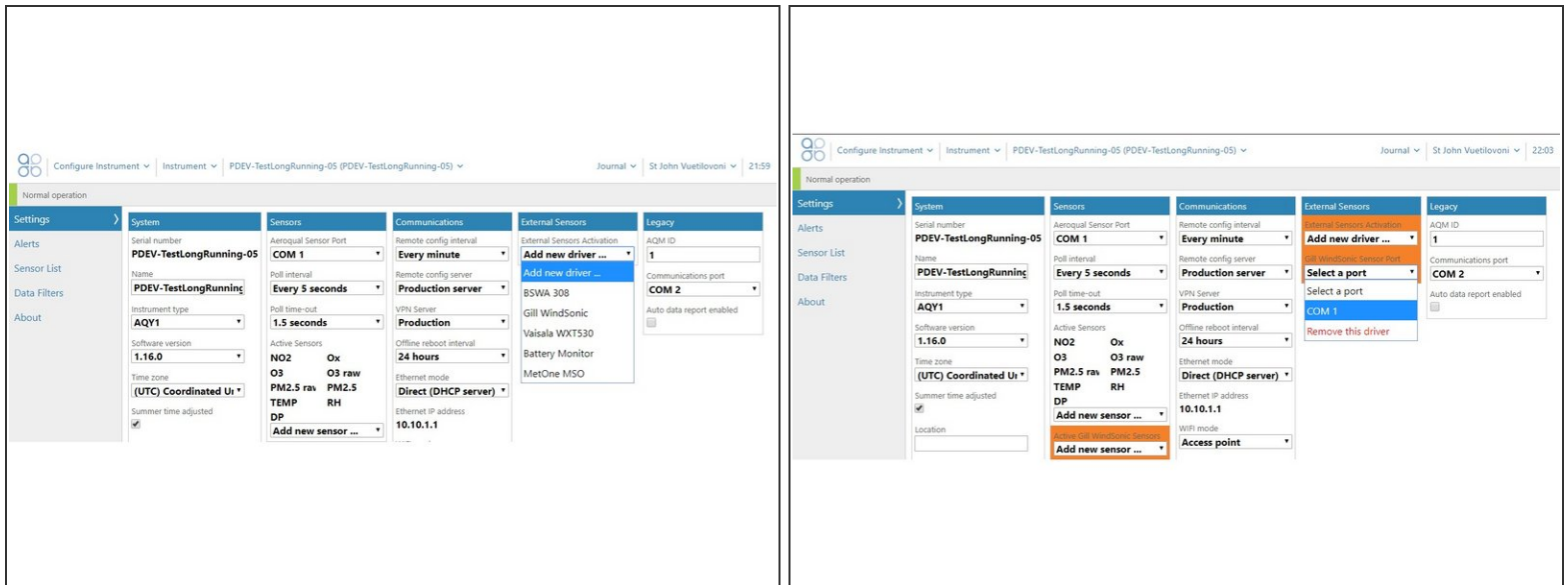
- Remove the cover from the power and data interface (PDI).
- Find the communication ports for third-party sensors on the left-hand side of the PDI board. These 4-way communication ports are labelled **COM3 Sensor** and **COM2 Sensor**.

Step 4 — Wire in sensor

				
Gill Instruments Windsonic	MetOne MSO weather station	Vaisala WXT536 weather station	Cirrus MK427 noise meter	Li-Cor LI-200 Pyranometer
Green (V supply +) Yellow (TXD) Brown (RXD) White (V supply -), Braid (Signal)	Red (+12V DC) White (RS-232 TX) Brown (RS-232 RX) White/BRN (Shield, GRN (Signal common), BLK (Pwr com)) Brown (VIn+ for operating) Yellow (VIn+ for heating) Blue (Data out TXD) White (Data in RXD)	White (Data in RXD) Red (GND for VIn+), Green (GND for data), Pink (GND for VIn+)	Separate AUX module required	Separate AUX module required
PWR TX RX GND	PWR TX RX GND	PWR TX RX GND		
				

- Using the colour coded chart to guide you, wire the sensor into one of the communication ports.
- ❗ The Cirrus MK427 noise meter and Li-Cor LI-200 Pyranometer need to be connected using a [separate auxiliary \(AUX\) module](#).

Step 5 — Configure sensor



- When you're happy with the wiring, turn on the monitor.
- Wait a few minutes and log in to Aeroqual Connect.
- Go to the **Configure** app and click **Settings** from the side menu.
- In the **External Sensors** column, choose the driver for your third-party sensor.
 - ① More selection fields appear in the **External Sensors** column, and the sensor appears in the **Active Sensors** list in the **Sensors** column.
- Choose the communication port the sensor is connected to from the drop-down list in **External Sensors**.
- Click **Save**.

For further support, contact [Technical Support](#).