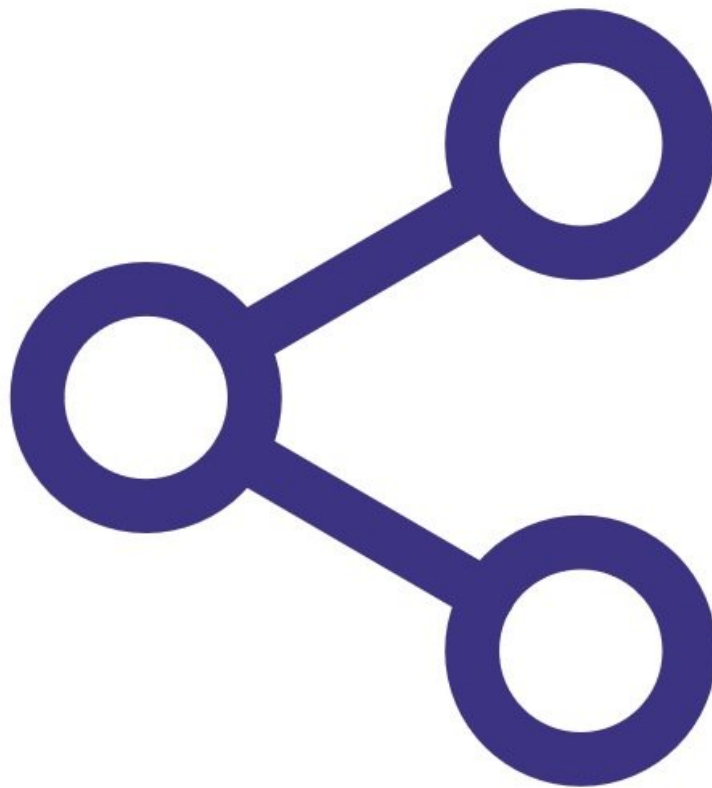




# Connect third-party sensor using virtual AUX

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## PARTS:

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

## Step 1 — Overview

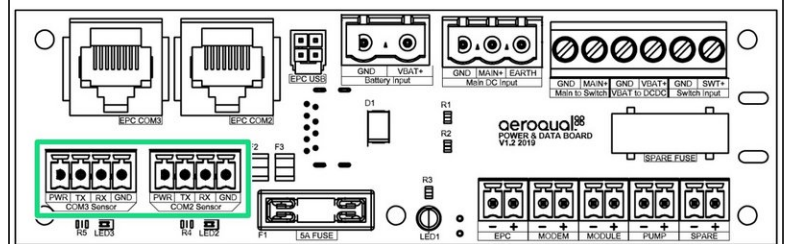


- If you bought your monitor after October 2019, you can easily connect the following third-party sensors using virtual AUX.
  - MSO weather station from Met One
  - WXT536 weather station from Vaisala
  - Windsonic from Gill Instruments
- However, the following third-party sensors [need to be manually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

## A close-up photograph showing a person's hand plugging a black cable into a port on a white electronic device. The device has several other ports, some of which are already occupied by other cables. The device is mounted on a wall, and a coiled black cable is visible in the foreground.









- 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.

This image shows the internal components of the instrument. It features a black metal chassis with various electronic modules and wiring. On the left, there is a module labeled 'MAGNETIC' with several blue Ethernet cables plugged into it. In the center, there is a module labeled 'SAMPLE' with a 'SERIAL' port. To the right, there is a power switch with a rotary knob labeled 'MAIN OFF BATT'. Two red circles are drawn on the bottom of the chassis, highlighting two small, dark, circular components, likely screws or mounting points.



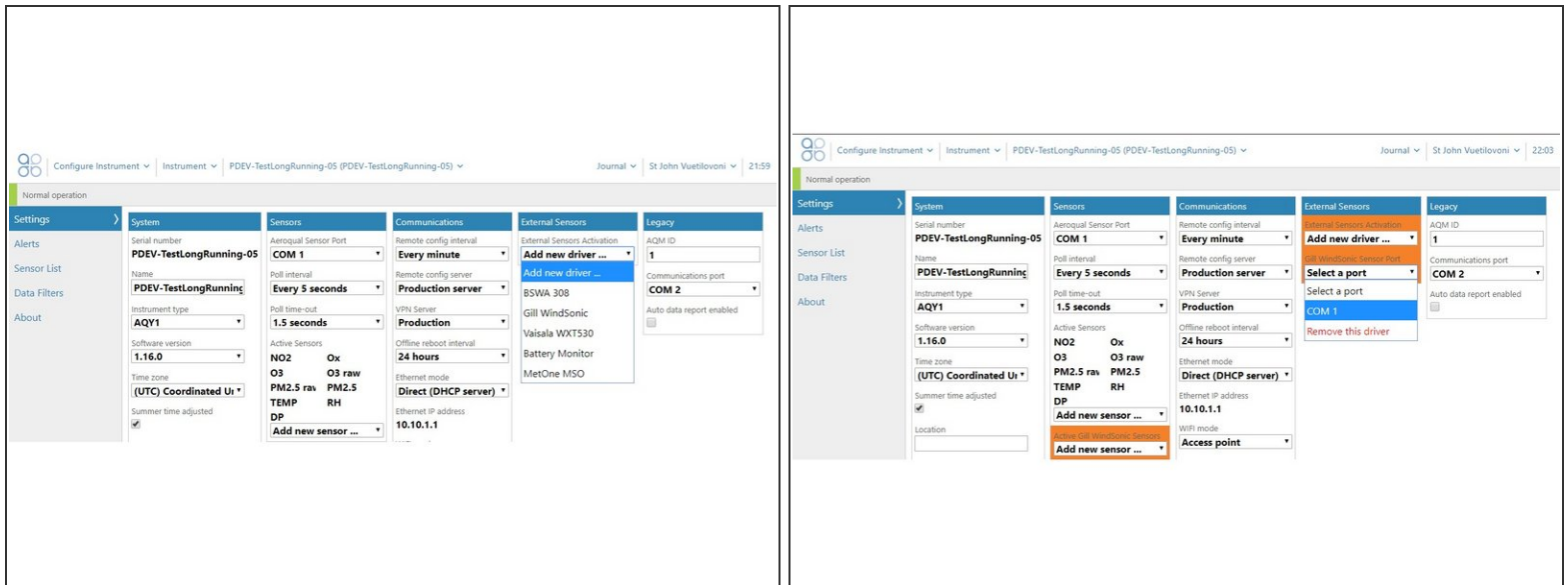
- Remove the cover from the power and data interface (PDI).
- Find the communication ports for third-party sensors on the left-hand side of the PDI board. These 4-way communication ports are labelled **COM3 Sensor** and **COM2 Sensor**.

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) 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](#).