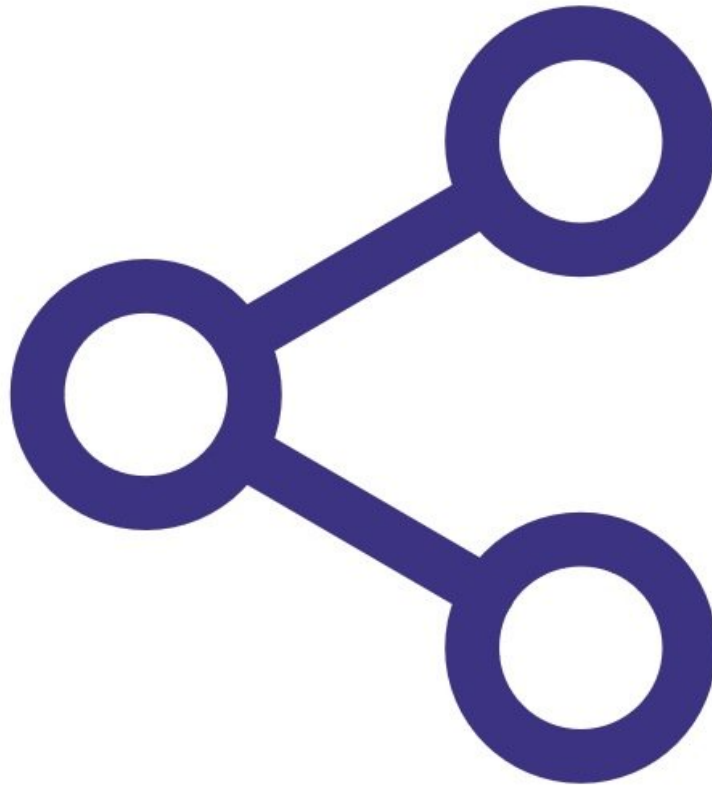




# Connect third-party sensor using AUX module

All you need to know to attach third-party sensors such as weather stations and noise meters.

Written By: Tanya Taylor



 **TOOLS:**

- [Small flat head screwdriver](#) (1)

 **PARTS:**

- [Vaisala weather sensor](#) (1)
- [Met One weather sensor](#) (1)
- [Cirrus noise sensor](#) (1)
- [Gill Windsonic wind sensor](#) (1)
- [Li-Cor LI-200 pyranometer](#) (1)
- [AirMar 200WX and 300WX](#) (1)

## Step 1 — Overview



- Your Aeroqual monitor supports the following third-party sensors:
  - MSO weather station from Met One
  - MK427 noise meter from Cirrus
  - WXT536 weather station from Vaisala
  - Windsonic from Gill Instruments
  - LI-200 Pyranometer from Li-Cor
  - 200WX and 300WX weather station from Airmar

## Step 2 — Auxiliary module



- If you bought your monitor before October 2019, you need to wire your third-party sensor to the AUX module.
- The AUX module gives power to an external sensor and processes data from the sensor. The module uses a 12-way green connector to connect to the external sensor.

⚠ If you bought your monitor after October 2019, [you can connect some third-party sensors using virtual AUX.](#)

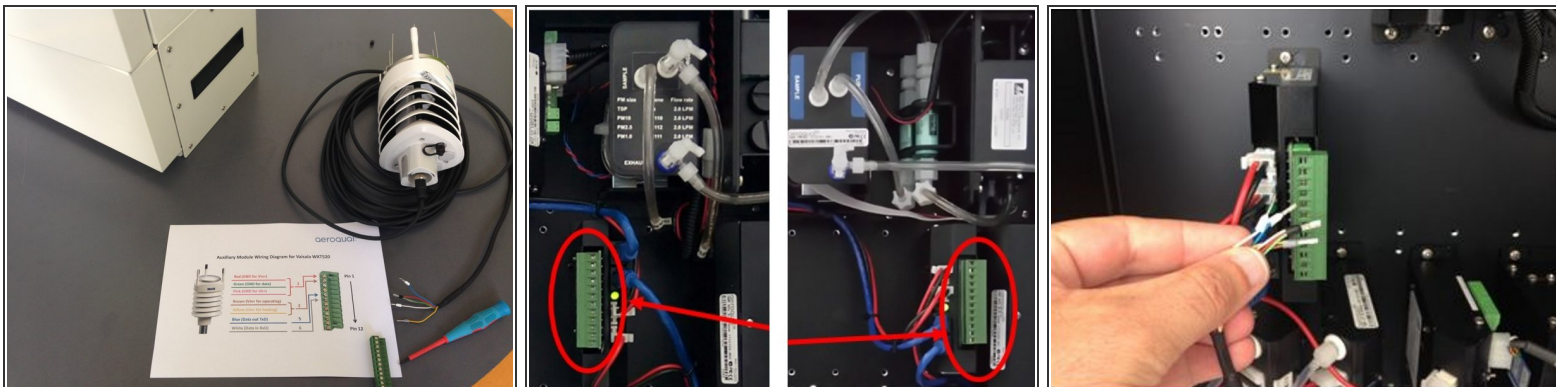
### Step 3 — Feed cable



⚠ **Disconnect power from the monitor.**

- 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.
- ① To check the operation of the third-party sensor in your office or laboratory prior to site installation, this step isn't mandatory.

## Step 4 — Wire cable



- To learn about the specific wiring configuration for your third-party sensor, download the relevant document at the bottom of this guide.
- Before you start wiring, check the orientation of the green 12-way connector on the front of the AUX module. Take note of the numbering. If the module and connector are flipped, you'll need to account for that when you wire.
- Wire the cable from the third party sensor into the green connector.

## Step 5 — View sensor settings

Manage Data

Air Quality Monitor (AQM65 12022016-497)

operation

From

03/26/2017

To

04/02/2017

Averaging period

1 hour

10 minutes

15 minutes

20 minutes

30 minutes

1 hour

2 hours

4 hours

8 hours

12 hours

Daily

Updated

03/26/2017 10:00 PM

| Time              | PM10  | O3 ppm |
|-------------------|-------|--------|
| 4/2/2017 10:00 PM | 0.046 | 0.046  |
| 4/2/2017 9:00 PM  | 0.049 | 0.049  |
| 4/2/2017 8:00 PM  | 0.051 | 0.051  |
| 4/2/2017 7:00 PM  | 0.055 | 0.055  |
| 4/2/2017 6:00 PM  | 0.053 | 0.053  |
| 4/2/2017 5:00 PM  | 0.053 | 0.053  |
| 4/2/2017 4:00 PM  | 0.052 | 0.052  |
| 4/2/2017 3:00 PM  | 0.121 | 0.053  |
| 4/2/2017 2:00 PM  | 0.090 | 0.051  |
| 4/2/2017 1:00 PM  | 0.076 | 0.050  |
| 4/2/2017 12:00 PM | 0.055 | 0.047  |
| 4/2/2017 11:00 AM | 0.034 | 0.045  |
| 4/2/2017 10:00 AM | 0.021 | 0.040  |
| 4/2/2017 9:00 AM  | 0.012 | 0.038  |
| 4/2/2017 8:00 AM  | 0.006 | 0.036  |
| 4/2/2017 7:00 AM  | 0.011 | 0.015  |
| 4/2/2017 6:00 AM  | 0.014 | 0.013  |
| 4/2/2017 5:00 AM  | 0.014 | 0.020  |
| 4/2/2017 4:00 AM  |       |        |

- When you're happy with the wiring, turn on the monitor.
- Wait a few minutes and log in to Aeroqual Connect.
- To view the parameters associated with the third-party sensor, go to the **Configure** app and click **Settings** from the side menu.
- To see data, go to **Manage Data**, and click **Charts** or **Table** from the side menu. Adjust the averaging period as required.

 Always keep the certificate of compliance that's shipped with the monitor.

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