Replace gas module

Learn how to replace a gas module with another of the same type or a module of a different type.

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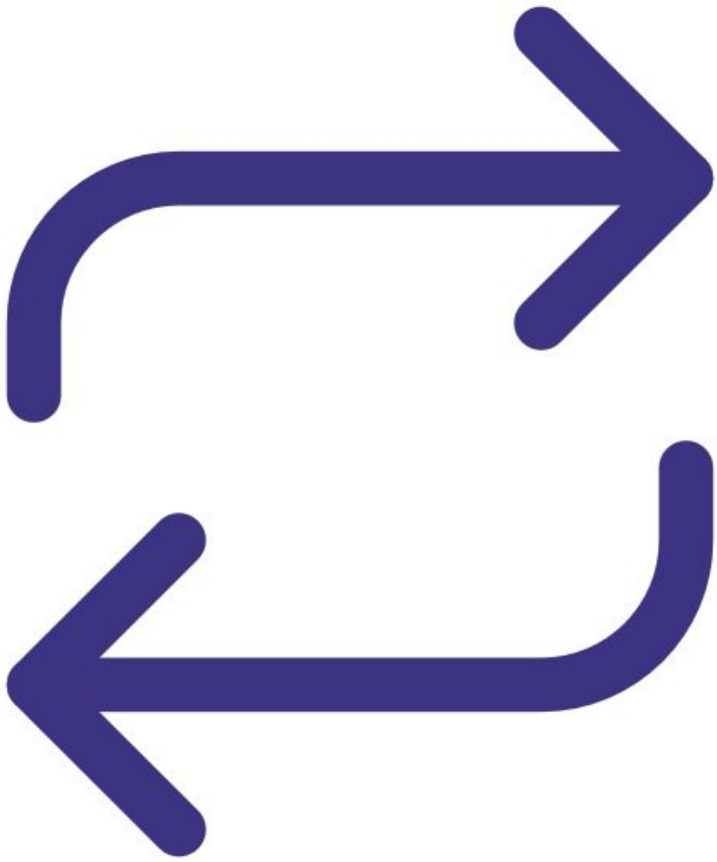


INTRODUCTION

The AQS 1 supports up to 4 gases: O_3, NO_2, CO, VOC high range or VOC low range.

The AQM 65 supports up to 8 gases: O_3, NO_2, NOx, SO_2, CO, CO_2, H_2S, VOC low range or VOC high range.

You can easily do this procedure on site at the monitoring location.

To understand how often you should perform this service activity, click here.

TOOLS:

- Large Phillips head screwdriver (1)

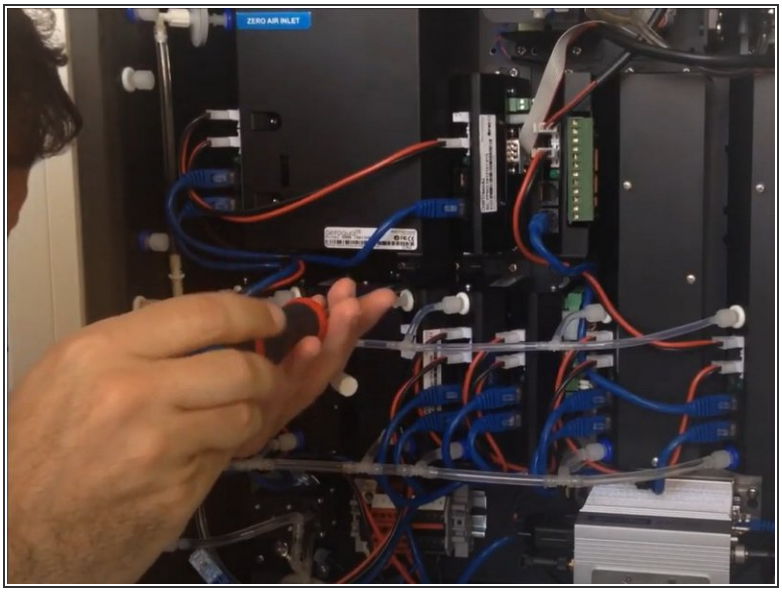
PARTS:

- Flowmeter - TSI 4140 (1)
- O3 gas module (1)
- NO2 gas module (1)
- NOx gas module (1)
- CO gas module (1)
- CO2 gas module (1)
- H2S gas module (1)
- SO2 gas module (1)
- VOC gas module - low range (1)
- VOC gas module - high range (1)

Step 1 — Enter service mode

- Enter service mode so any fluctuations in the data caused from this activity can be excluded from air quality reports.

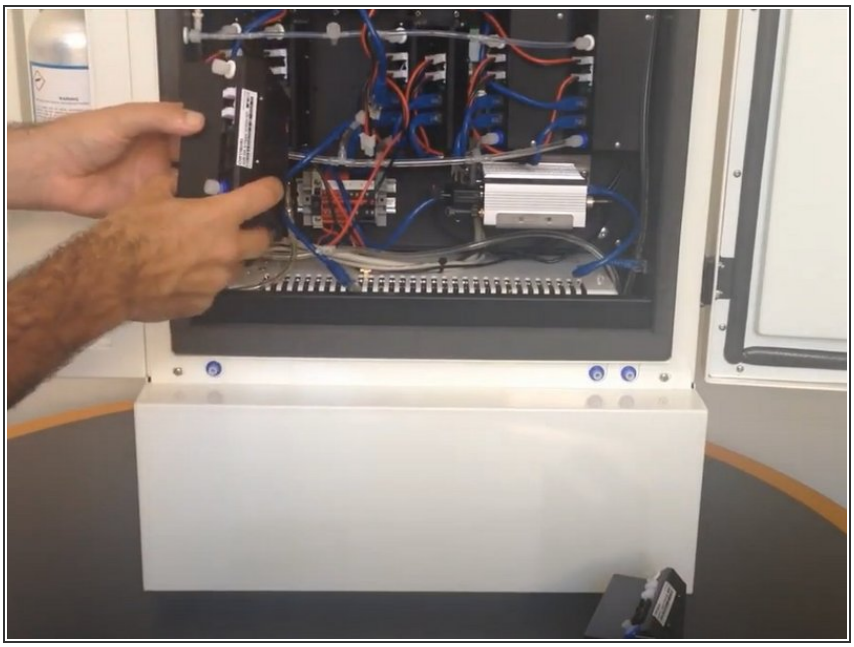
Step 2 — Remove old module



Keep your monitor on. You don’t need to turn it off for this procedure.

- Disconnect the blue communications cables and red and black power cables.
- Disconnect the sample inlet and exhaust tubes.
- Loosen the retaining screws and carefully remove the module.

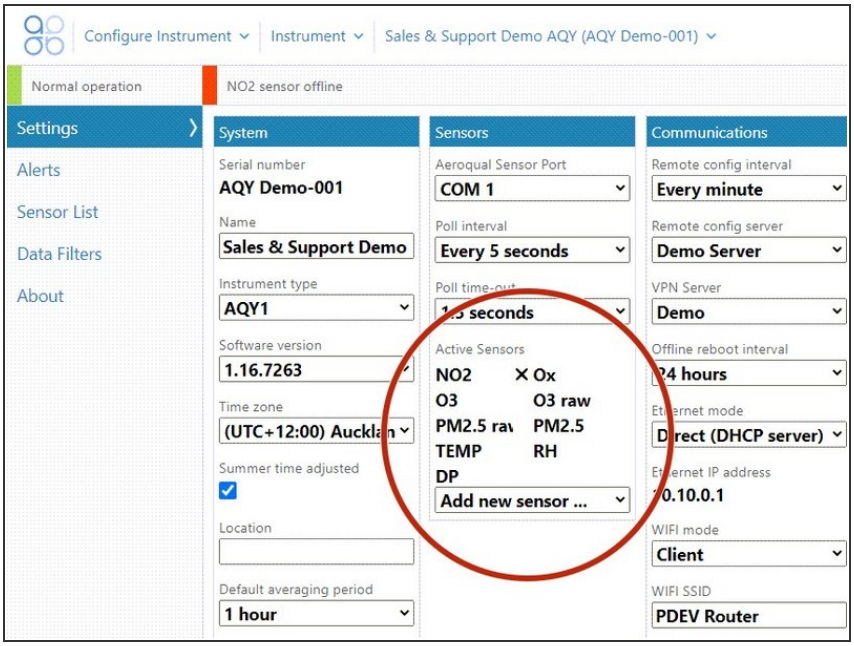
Step 3 — Insert new module



- Carefully insert the new module and screw it in.
- Take the luer caps off the sample inlet and exhaust connections.
- Connect the sample inlet and exhaust tubes to the module.
- Connect the communication and power cables.

  ⚠ Make sure the polarity of the red and black cable is the correct.

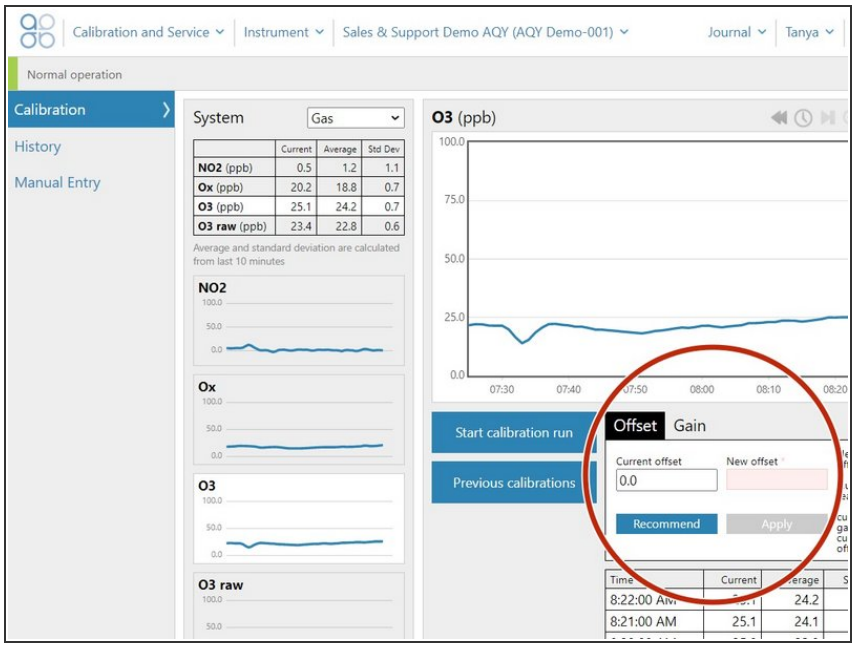
Step 4 — Configure module



ⓘ You only need to do this step if you are replacing the module with a different type of module.

- Go to the **Configure** app and click **Settings** from the side menu.
- Remove the old module from the **Active Sensors** list by hovering over the sensor name and clicking the cross that displays.
- Click **Save** when the confirmation message appears.
- Select the new module from the **Add new sensor** drop-down.
- Click **Save**.

Step 5 — Set offset and gain

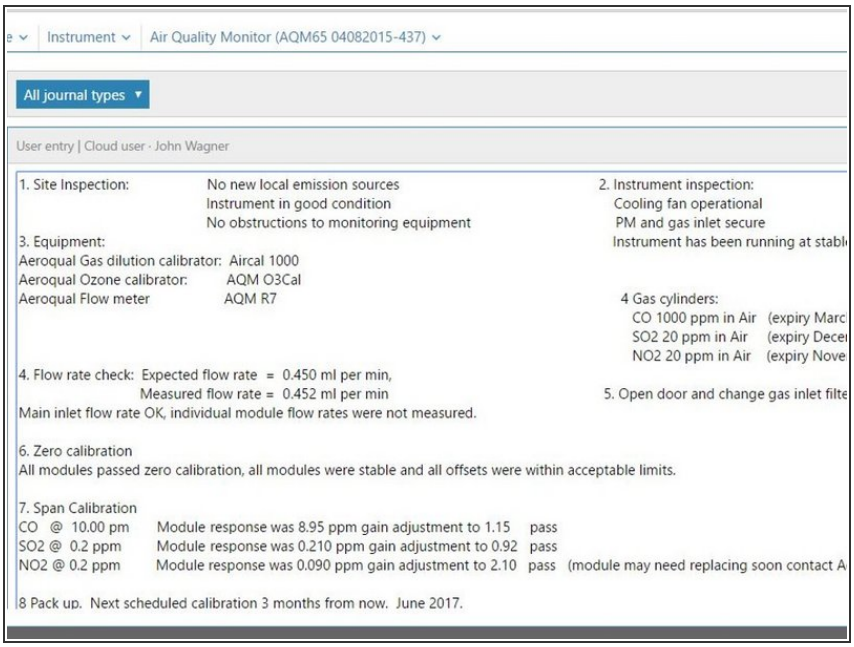


- Go to the **Calibration and Service** app and select **Calibration** from the side menu.
- Select your replaced gas channel from the **System** panel.
- In the details panel, set the offset to 0.000 and the gain to 1.000.

Step 6 — Check inlet flow

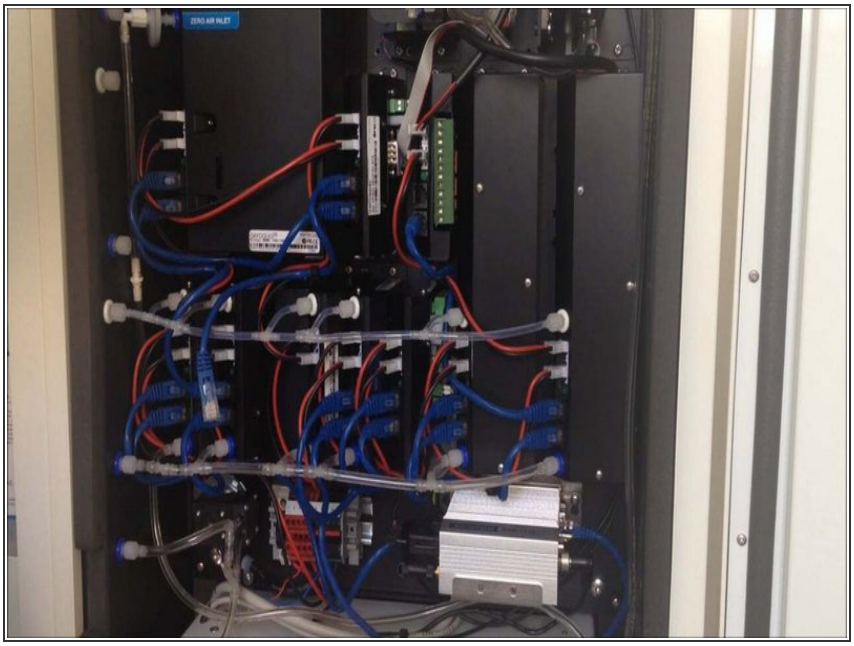
- If you replace a gas module with the same type of module, the total inlet flow rate should remain the same.
- If you replace a gas module with a different type of module, the overall flow rate of the main gas inlet might change.
- Read the PDF attached to the end of this user guide to understand the expected flow rate for the gas inlet.
- Measure the inlet flow rate to make sure it's as expected.

Step 7 — Record in journal



- Record the results of this service activity in the monitor's journal.
- Exit service mode.

Step 8 — Video of steps



- To see the process of replacing a module in an AQM 65, watch this video.

For further support, contact Technical Support.