Add gas module

Learn how to add a new gas module to your monitor.

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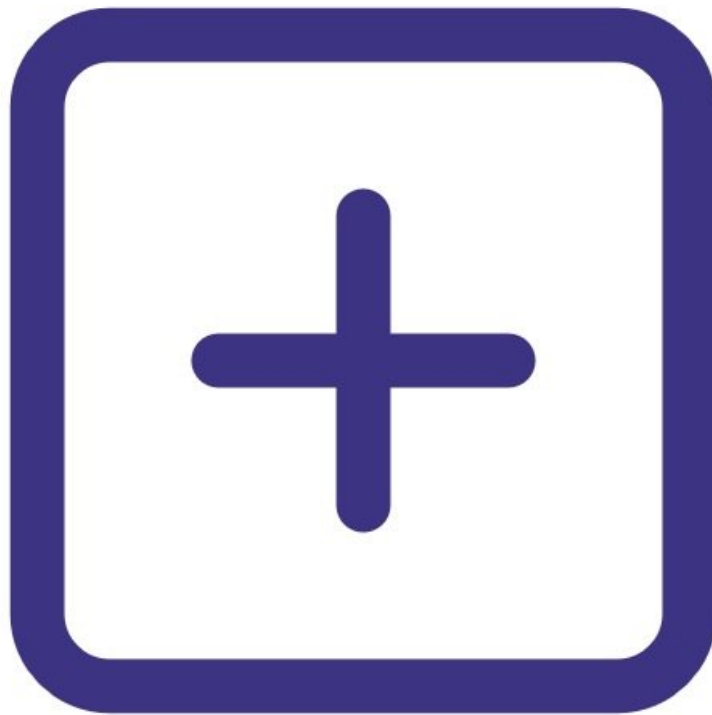
INTRODUCTION

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:	PARTS:
• Large Phillips head screwdriver (1)	• PFA tubing (inlet) (1)
• Tube cutter (1)	• Tygon tubing (exhaust) (1)
	• Luer fittings (1)
	• 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)

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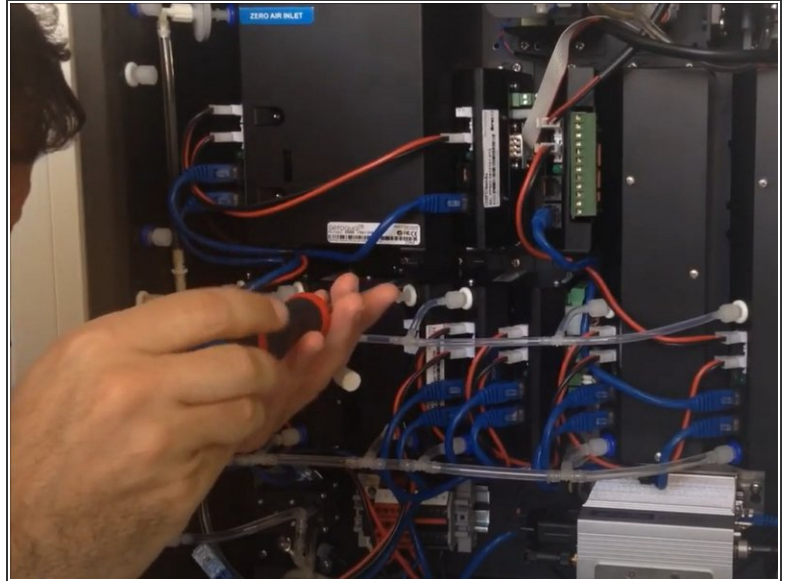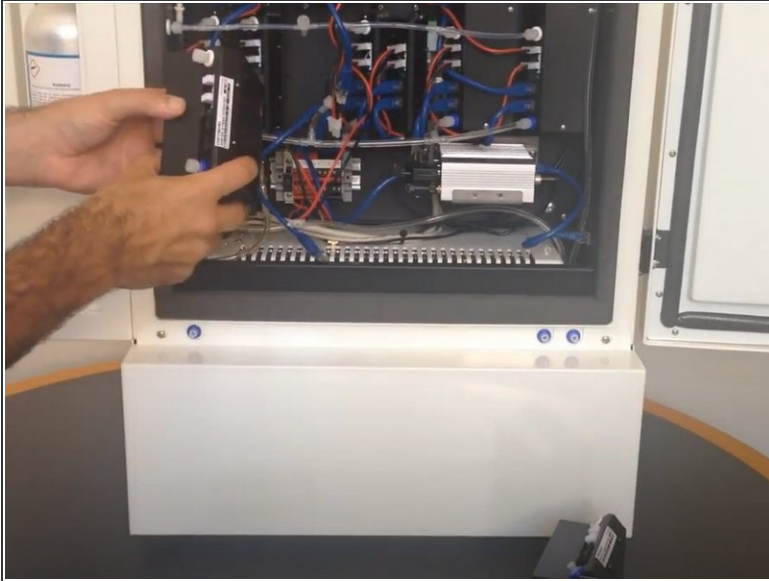
Step 1 — Enter service mode

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

Step 2 — Prepare tubing
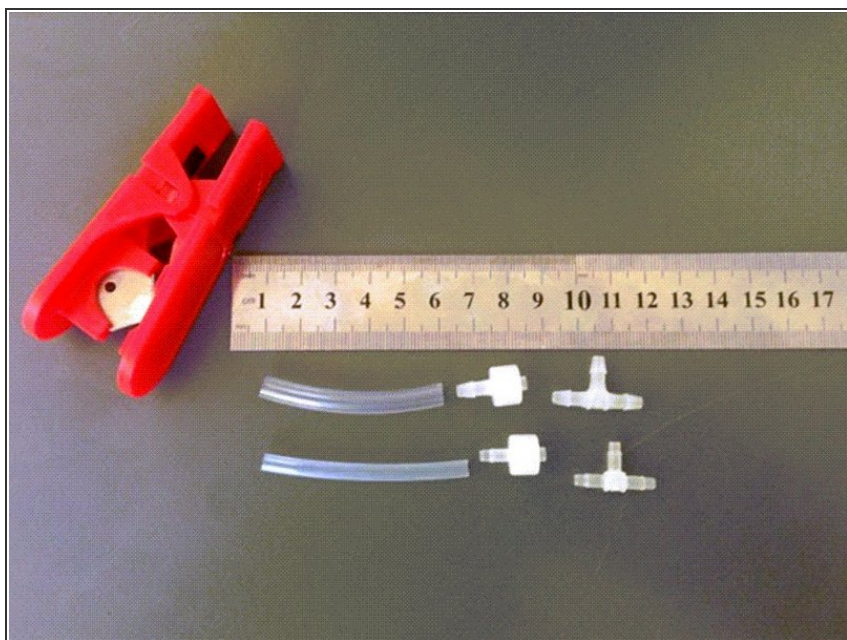
- (i) Keep your monitor on. You don't need to turn it off for this procedure.

- Identify where you want to install the new module.
  - (i) You can install it between two existing modules or connect it directly to manifold on the left side of the enclosure.

- Carefully cut the PFA and Tygon tubing in the enclosure to the required length (about 5cm).

⚠ Use a tube cutter. Don't use scissors.

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Step 3 — Insert module

- If you're inserting the new module between two existing modules, use a large barb tee for the exhaust tubing and a small barb tee for the inlet tubing.

- Secure the module to the back plate using 4 x 10mm M4 screws.

- Connect one blue communications cable and one red and black power cable to ensure all modules have power and communications.

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

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Step 4 — Configure module

- Go to the **Configure** app and click **Settings** from the side menu.

- Select the new module from the **Add new sensor** drop-down.

- Click **Save**.

Step 5 — Set offset and gain
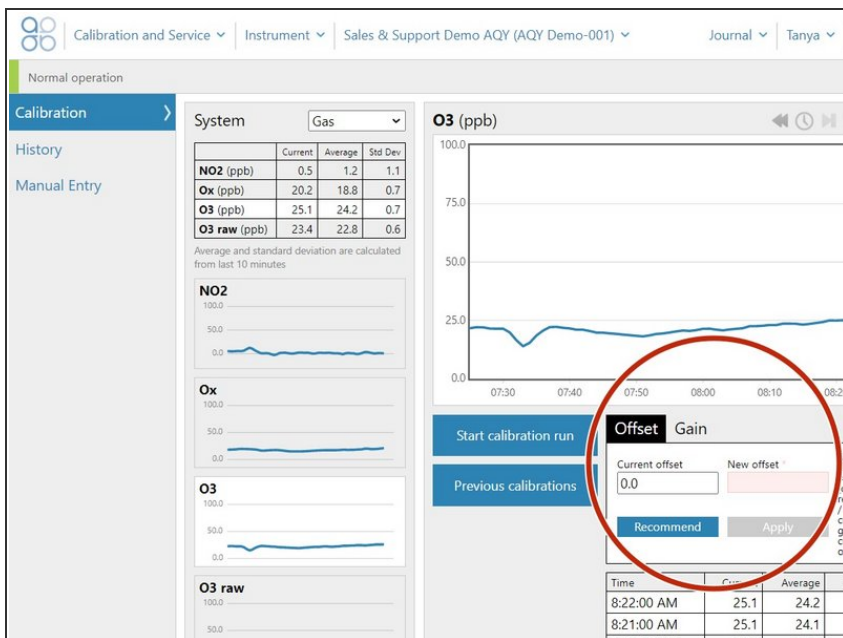
- Go to the **Calibration and Service** app and select **Calibration** from the side menu.

- Select your new gas channel from the **System** panel.

- In the details panel, set the offset to 0.000 and the gain to 1.000.

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Step 6 — Check inlet flow

- When you add a gas module, you increase the overall flow rate of the main gas inlet.

- 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](#).

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Step 8 — Video of steps
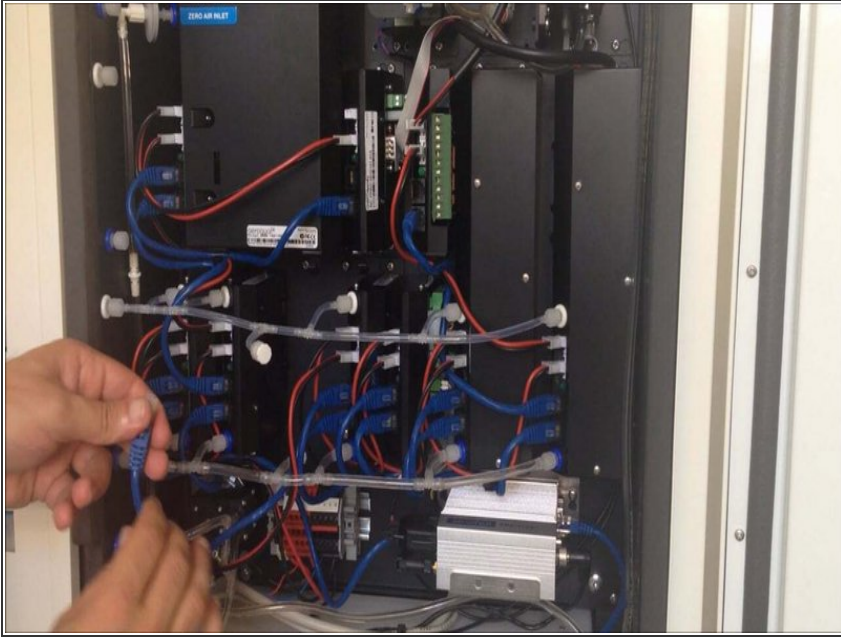
- To see the process of adding a module in an AQM 65, watch this video.

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

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