# Adjust flow of gas inlet and replace gas pump

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## INTRODUCTION

If all of your monitor’s gas modules show reduced flow, it’s likely the gas flow pump is aging. In this situation, you can adjust the flow bypass valve to provide more flow to the module inlets, and return the flow to the expected rate.

If you can't achieve the correct flow rate by adjusting the bypass valve, you may have to replace the gas sample pump.

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

### TOOLS:

- Large Phillips head screwdriver (1)
- Tube cutter (1)

### PARTS:

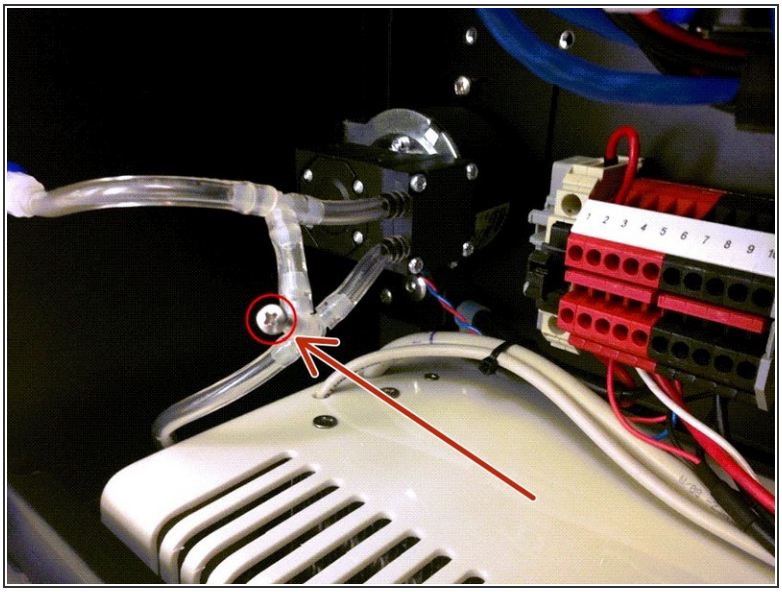
- Tygon tubing (exhaust) (1)
- Sample pump (1)

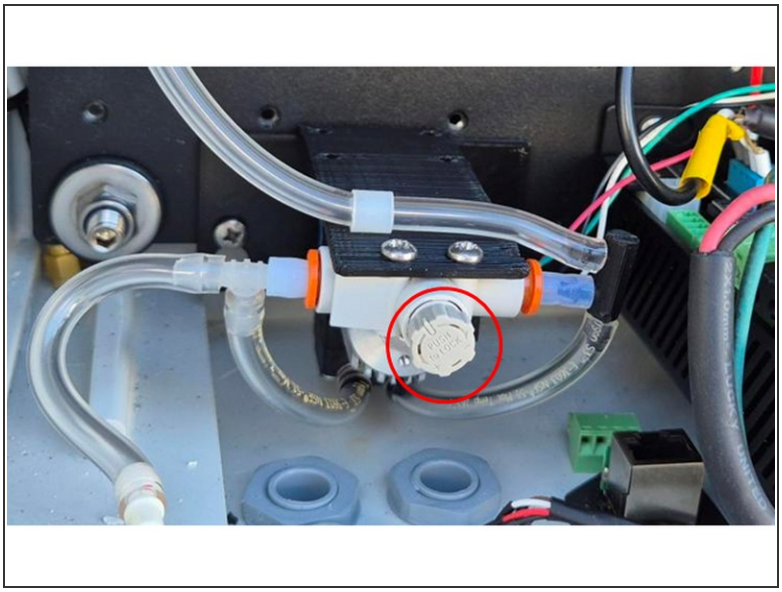
## Step 1 — Enter service mode




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

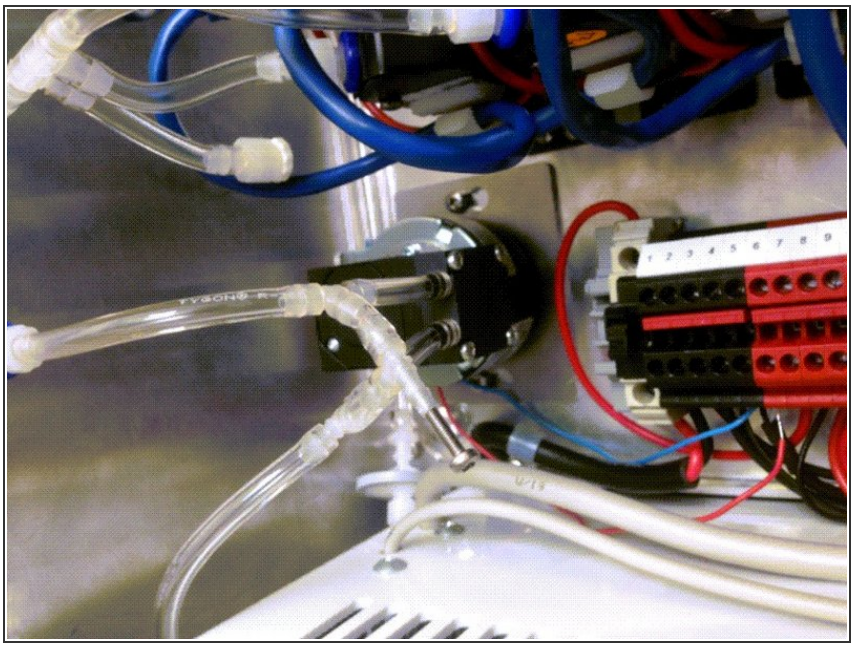
## Step 2 — Adjust bypass valve





- Attach a flowmeter to the gas inlet and measure the inlet flow.
- Adjust the pump flow bypass valve until the gas inlet flow rate returns to the expected rate.
- ⓘ The bypass valve controls the flow rate by diverting a portion of the flow.
- Older pump modules (ACC R10) use a screw to control the flow.
- Newer pump modules (ACC R11) use a valve to control the flow. Pull the knob of the valve out to unlock adjustment, and press back in following tuning.

## Step 3 — Replace pump



If you can't achieve the correct flow rate by adjusting the bypass valve, you may have to service or replace the sampling pump.

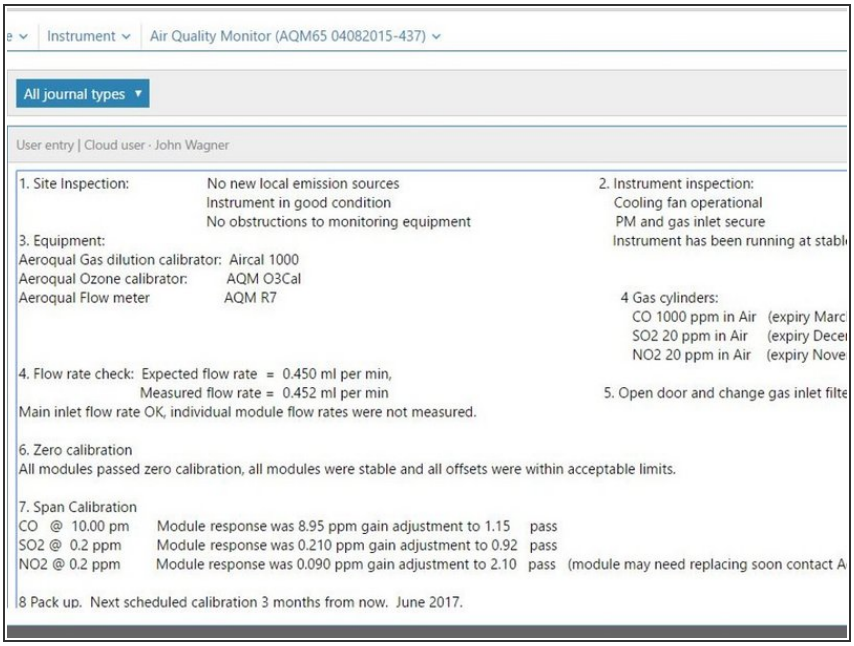
- Disconnect the pump from the monitor's power system.
- Unscrew the pump from the bracket.
- Slide the two connectors out of the Tygon tubing.
- Service or replace the pump
- Cut fresh lengths of Tygon tubing to connect the new pump to the main exhaust tubing.
  - This is important because the barbs on the old pump stretch the tubing when it's removed.
- Screw the new pump to the bracket and attach it to the monitor's power system.

## Step 4 — Re-check flow rate



- Re-attach the flowmeter to the gas inlet and check the flow rate is normal.

## Step 5 — Record in journal




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

For further support, contact Technical Support.