Zero calibration check for PCX

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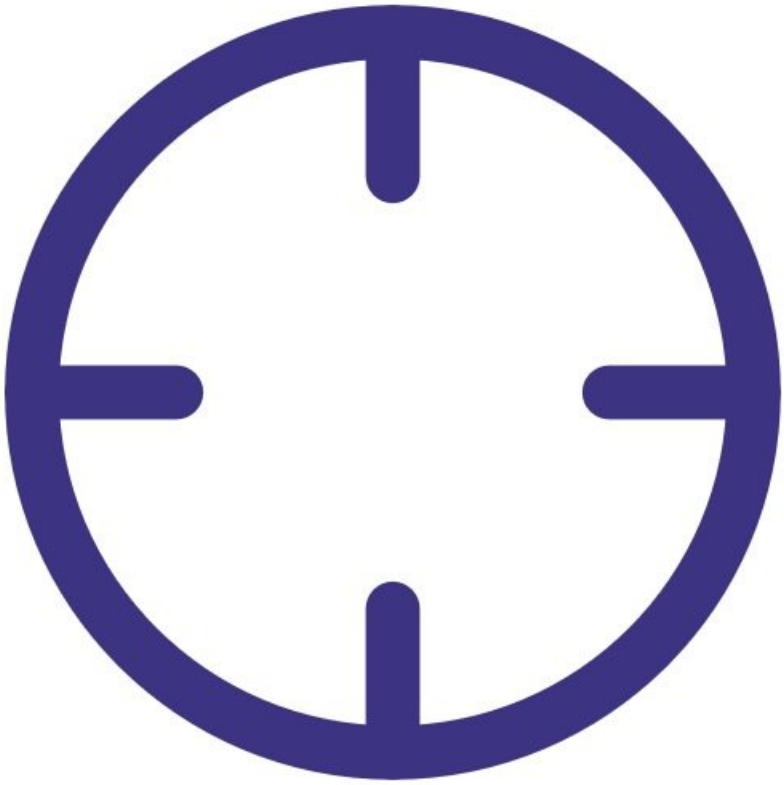

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INTRODUCTION

Use this procedure to check the zero baseline of your PCX.

The PCX has an automatic zero check function which run at start up and every 24 hour after that. Zero calibrations can also be run manually via a button in Cloud and Connect.

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

PARTS:

- Zero filter & flow assembly PCX (1)

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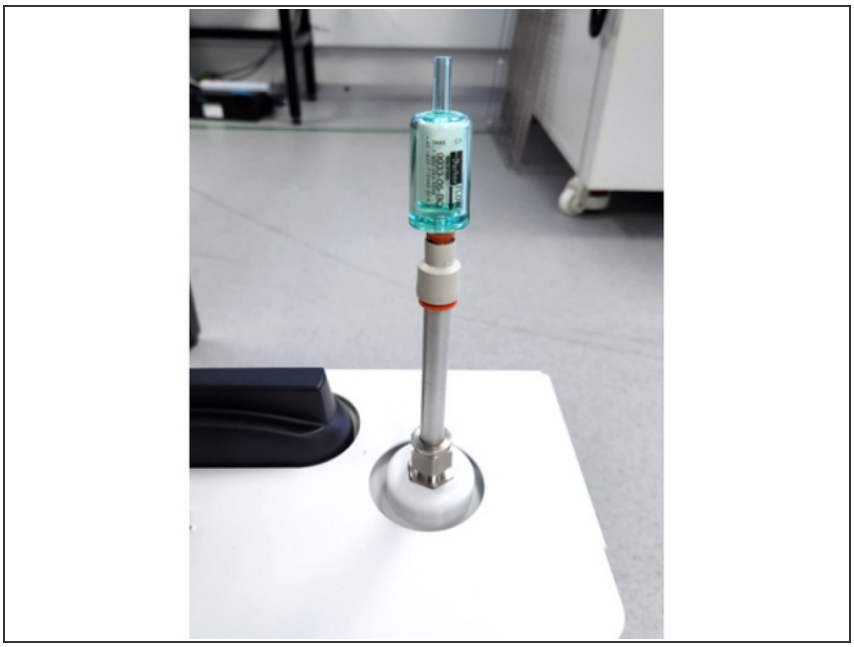
Step 1 — Enter service mode



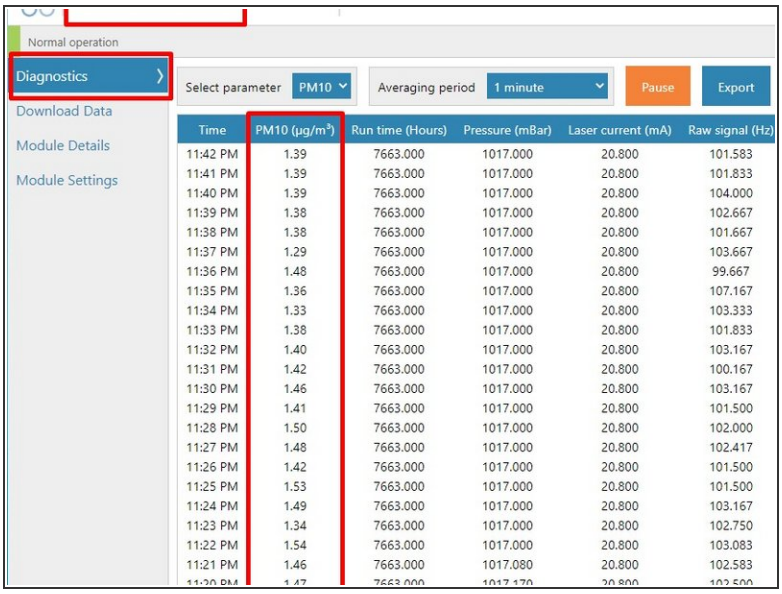
- Enter service mode so any fluctuations in the data caused from this activity can be excluded from air quality reports.

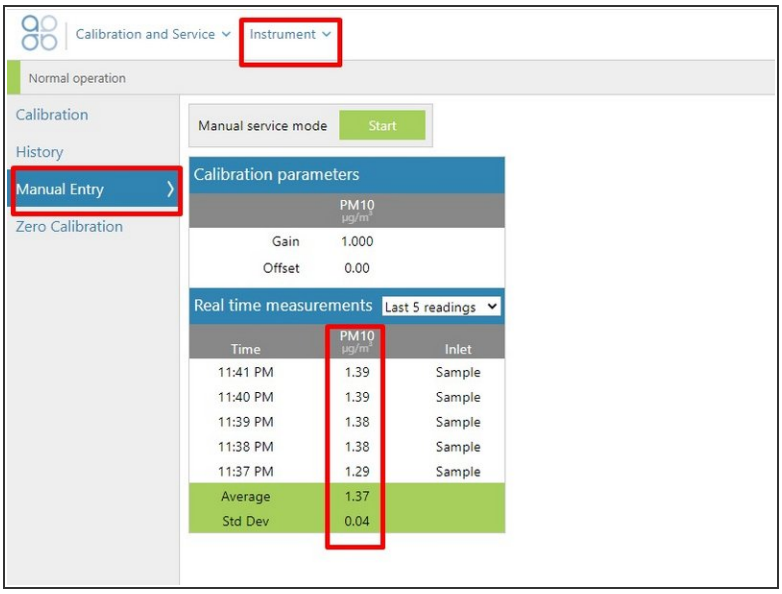
Step 2 — Attach zero filter



- Remove the TSP head from the top of your monitor’s particle inlet.
- Attach the flow adaptor and zero filter.

Step 3 — Check concentrations





- To view particle mass concentrations, open the **Diagnostics and Advanced** app and select **Diagnostics** from the side menu. The parameter dropdown menu will allow you to select your desired mass concentration.
- Alternatively, use the **Calibration and Service** app and select **Manual Entry** from the side menu.
- While the zero filter is attached, the **PM µg/m3** values for PCX channels should be 0 or close to 0 (between ±3 µg/m3).

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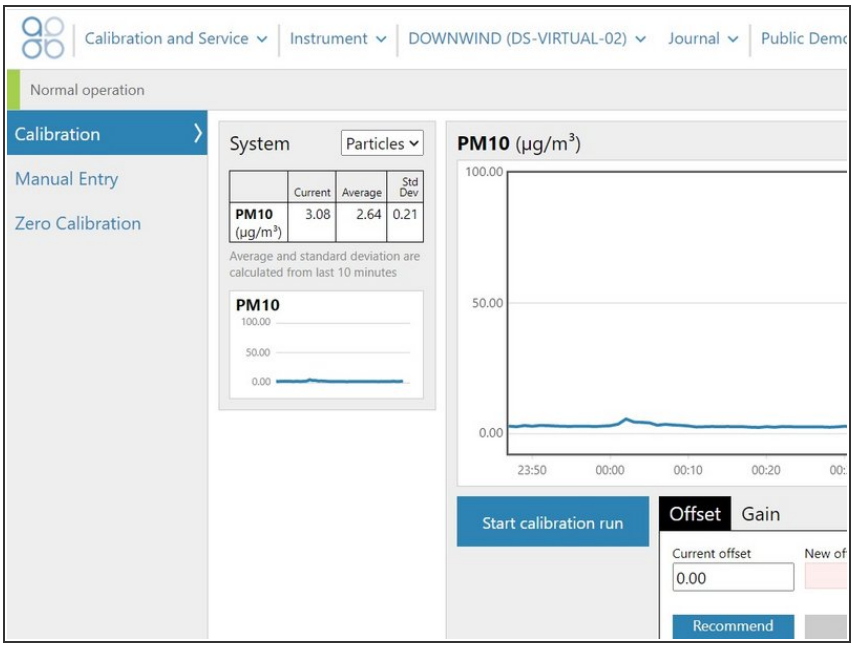
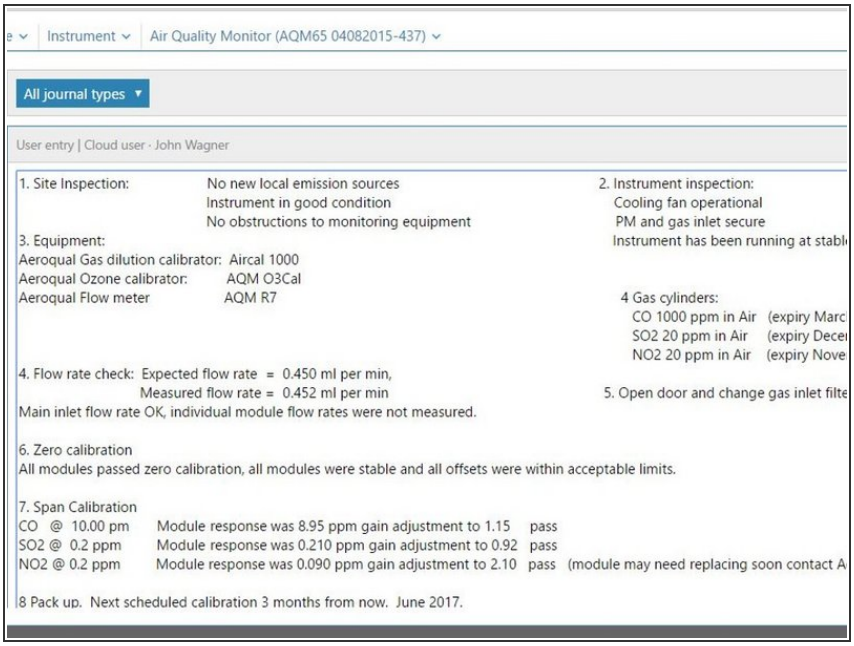
Step 4 — Adjust offset



- If the zero check shows negative numbers, there may be a problem with the auto zero cycle. See the troubleshooting section.
- Check that the offset is 0.000
- Check that the gain is between 0.6 and 4.0
- The zero baseline check is now complete.

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.