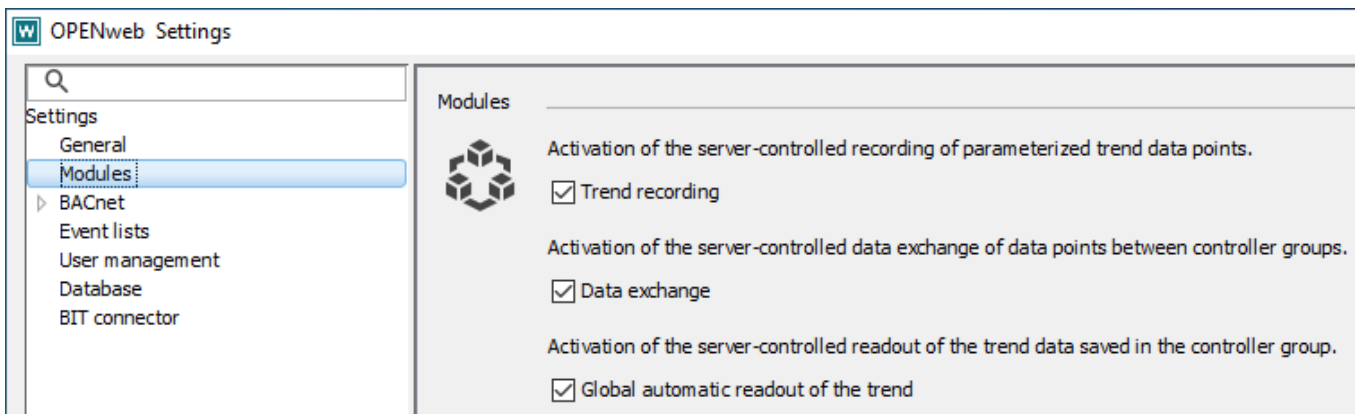
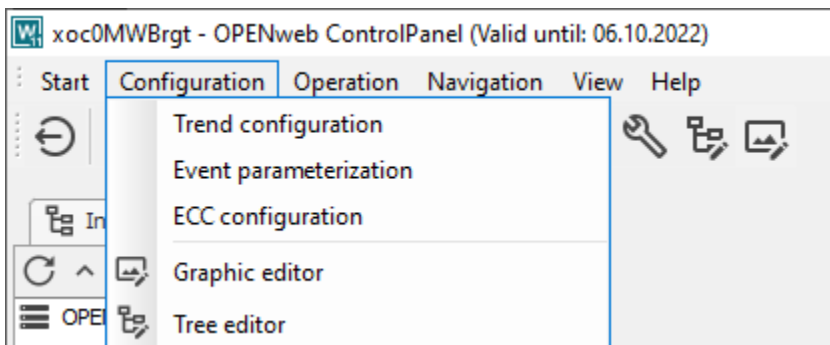


TT220904 - OPENweb 11 - Trend

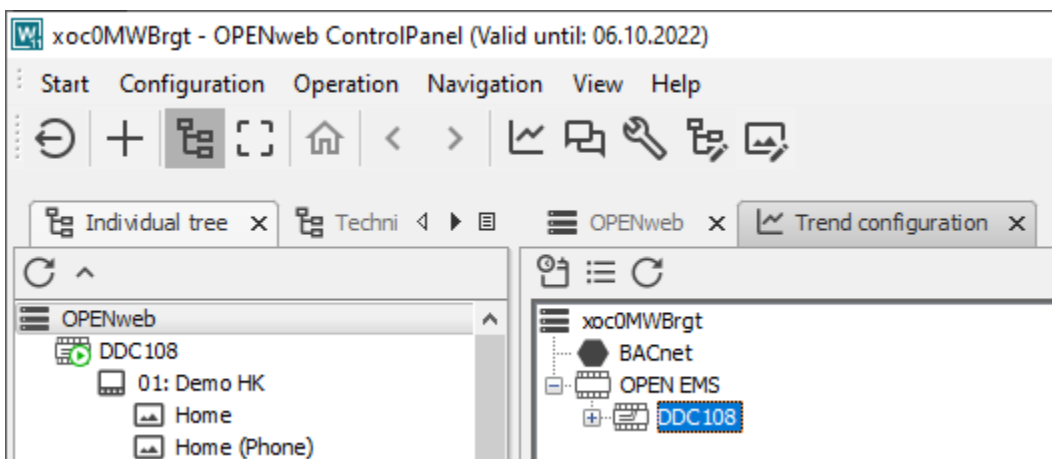
1. There are 2 ways to do trending in OPENweb. We will explain and show you how to configure them in this document.
2. The 1st way is to setup the trend in OPEN FXL. You can trend up to 250 points in the OPEN controller, and each point can store up to 70,000 records on the SD card. Using OPENweb trend readout function, you can store the records on the server for a much longer period.
3. The 2nd way is to setup the trend in OPENweb. OPENweb will read the points periodically and store the records on the server. This is useful if you need to trend more than 250 points in a controller.
4. Before we configure the trend in OPENweb, you need to make sure the options are enabled in the server. Start “OPENweb 11 Settings”, click on “Modules”. Tick both “Trend recording” and “Global automatic readout of the trend” options. Restart the server if needed.



5. Start “OPENweb11 Control Panel”. Click on “Configuration”, “Trend configuration”.



6. Click on the controller in “Trend configuration”. Click the “Setup trend readout” button .



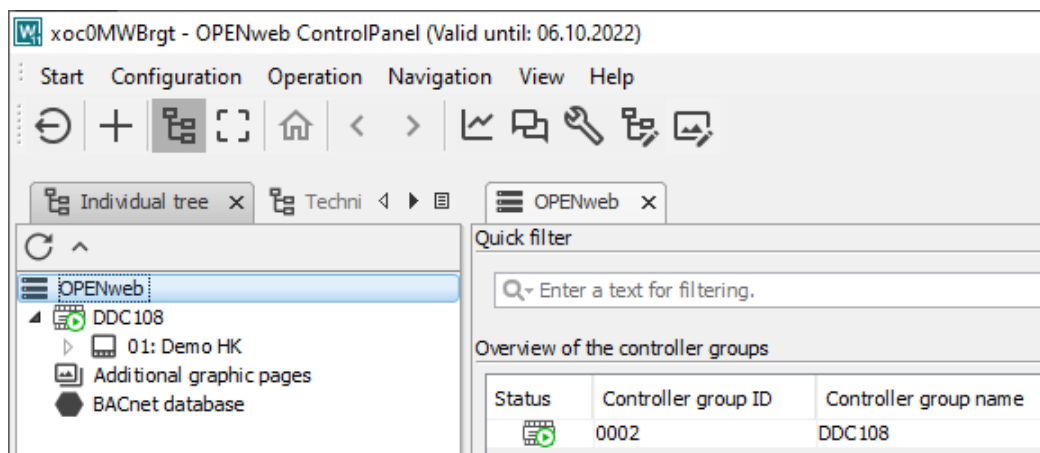
7. Set the readout interval. In this example, OPENweb will read the trends from the controller “DDC 108” every 30 minutes. Click “Done”.

The dialog box is titled "Trend Readout: Set up trend readout". It contains the following fields and controls:

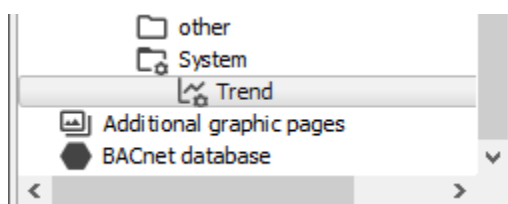
- Name:** Trend DDC108
- Controller group:** DDC108
- Description:** Enter description (optional)
- Time basis:** Minute
- Interval:** 30
- Execution from:** 9/16/2022 01:39 PM
- Compress trend data:** ☐

At the bottom, there are three buttons: "Cancel" (red), "Back" (grey), and "Done" (red).

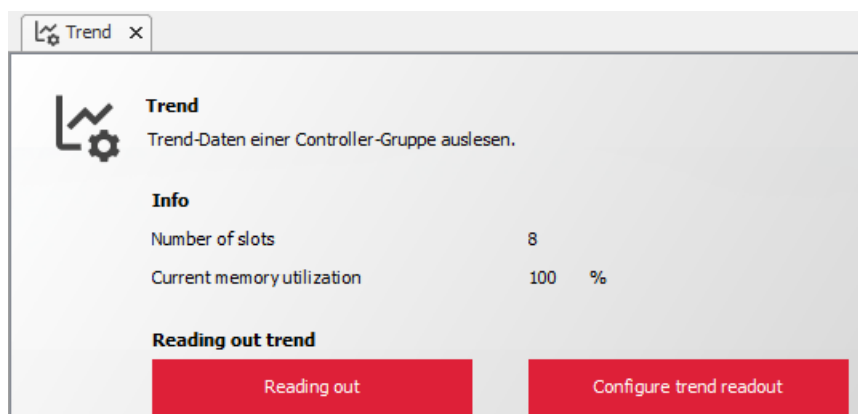
8. You can manually read the trend from the controller, Open the controller from the tree.



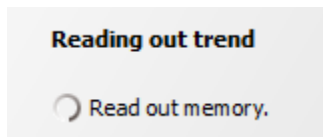
9. Scroll down the list until you find the “System” folder. Double click on it, and then click on “Trend”.



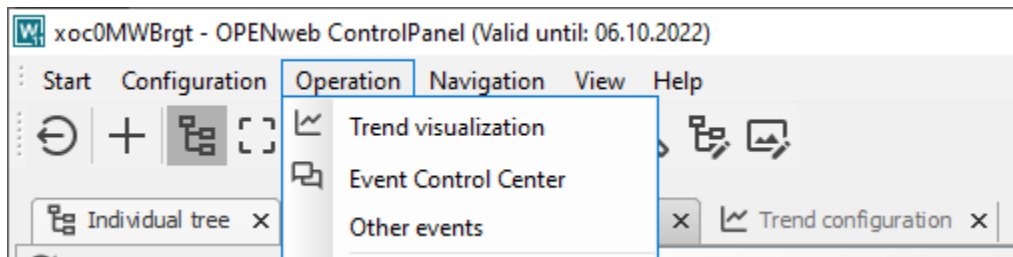
10. Click “Reading out” to read the trend data from the controller manually.



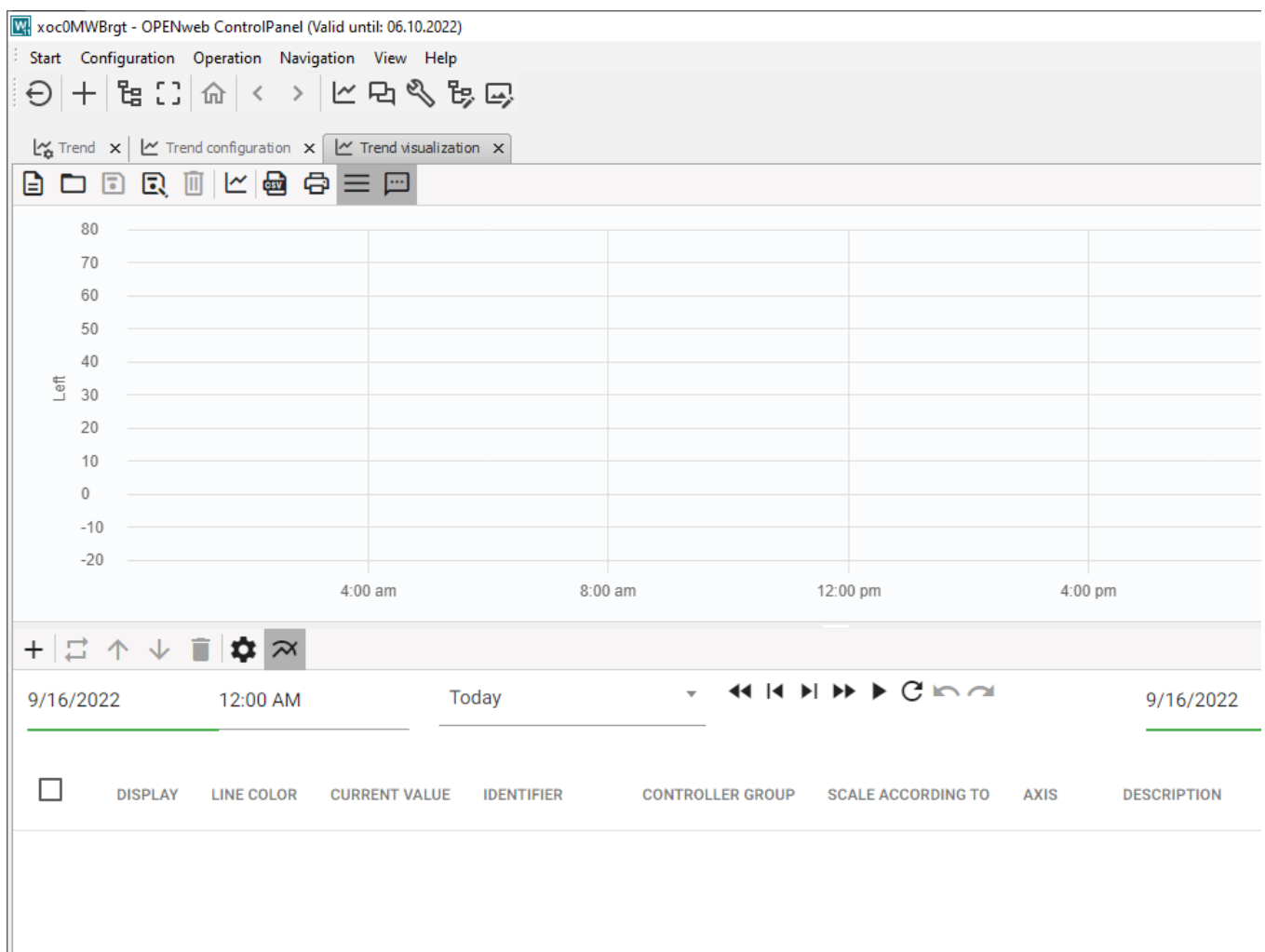
11. You will then see the below message. Wait until it's finished.




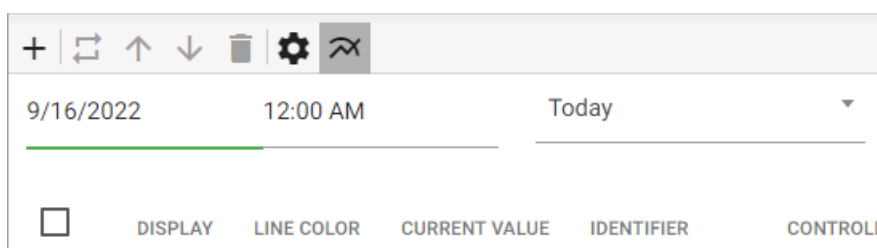
12. Now, you can view the trend data in "Trend Visualization", under the "Operation" menu.



13. This is the trend visualization page.



14. To add trend points to this page, click the "Add data point" button .



15. Click on the controller, and you should see all the trend points in the controller, tick the points you need, and click “COMPLETE”.

Add data point

Filter in the technical tree

Filter by data points

TECHNICAL TREE

DDC108

BACnet database

IDENTIFIER

PROTOCOL

☐

☒

☒

☐

☐

RA CO2

RA Humid

RA Temp

Temperature

VOC

OPEN

OPEN

OPEN

OPEN

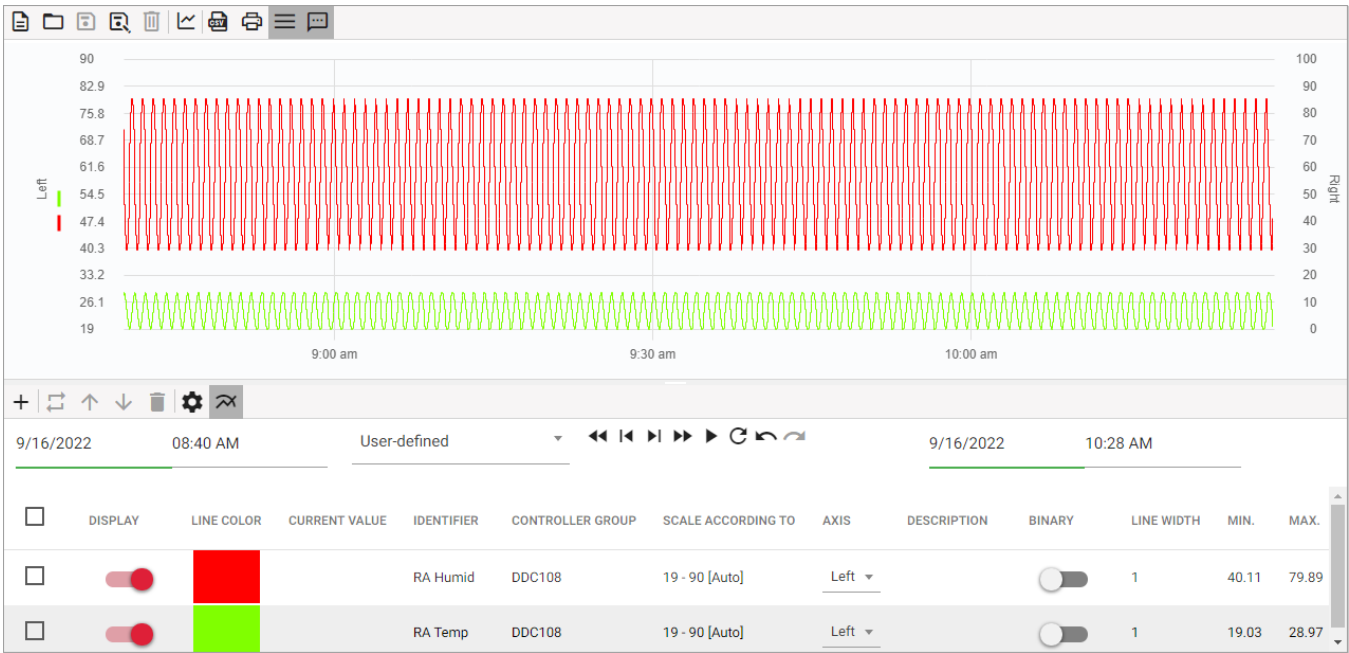
OPEN

With default settings

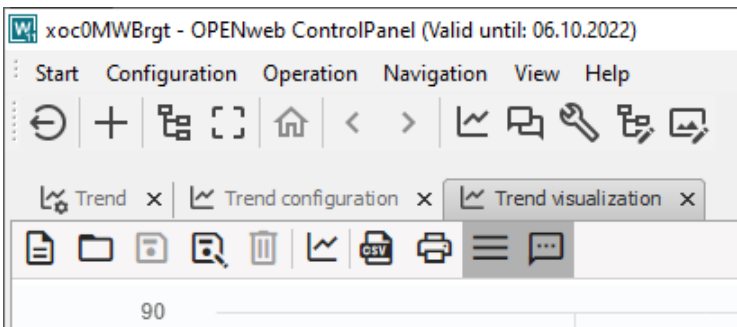
CANCEL

COMPLETE

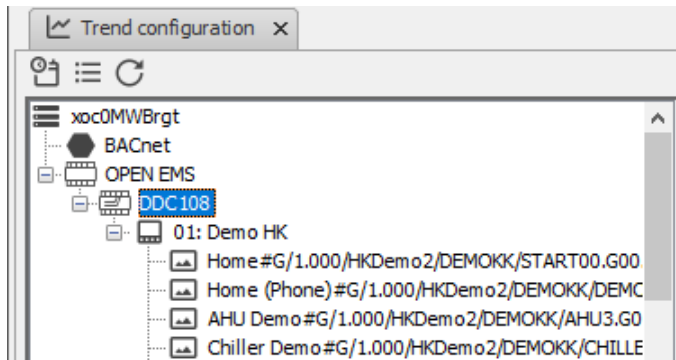
16. You can then configure the trend in this page.



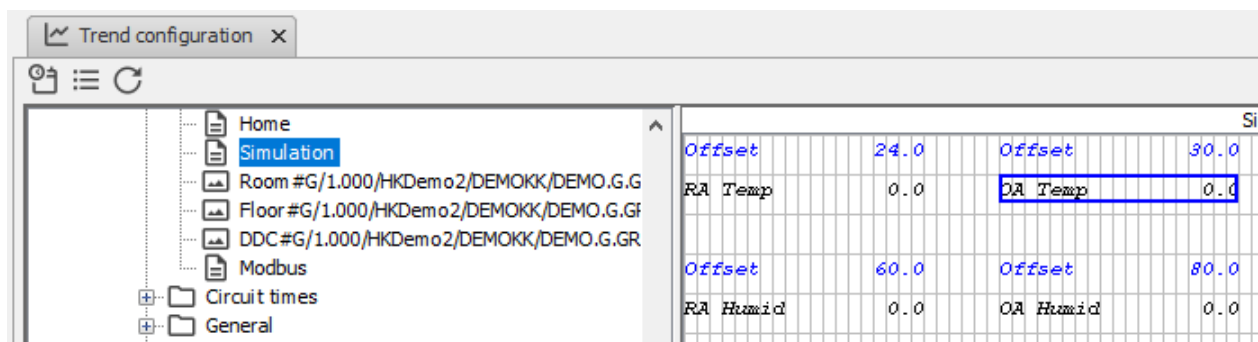
17. You can then save the page for later retrieval by clicking the “Save formula as” button .



18. Now, we will show you how to do the trending in OPENweb. From the menu, click on “Configuration”, “Trend configuration”. Double click on the controller to open up the tree.



19. Find the HTML page that contains the points you want to trend, click on the point you need.



20. Drag and drop it to the bottom.


| Ident... | Desc... | Time... | Inter... | Time | Proto... | Para... | Data ... | bacR... | Active | COV | Slot ... | Factor | Offset | Rele... | Stop... | Trigg... | Cons... | Com... |
|----------|---------|---------|----------|-------|----------|----------|-----------|---------|--------|------|----------|--------|--------|---------|---------|----------|-----------|-----------|
| RA Te... | | Second | 5 | --:-- | OPEN | OPEN ... | SIMUL... | | yes | 0.0 | 1 | 1.0 | 0.0 | | | | Not ch... | deacti... |
| RA Hu... | | Second | 5 | --:-- | OPEN | OPEN ... | SIMUL... | | yes | 0.0 | 2 | 1.0 | 0.0 | | | | Not ch... | deacti... |
| RA CO2 | | Second | 5 | --:-- | OPEN | OPEN ... | SIMUL... | | yes | 0.0 | 3 | 1.0 | 0.0 | | | | Not ch... | deacti... |
| Tempe... | | Second | 5 | --:-- | OPEN | OPEN ... | MODB... | | yes | 0.0 | 4 | 1.0 | 0.0 | | | | Not ch... | deacti... |
| Humid... | | Second | 5 | --:-- | OPEN | OPEN ... | MODB... | | yes | 0.0 | 5 | 1.0 | 0.0 | | | | Not ch... | deacti... |
| PM2.5 | | Second | 5 | --:-- | OPEN | OPEN ... | MODB... | | yes | 0.0 | 6 | 1.0 | 0.0 | | | | Not ch... | deacti... |
| VOC | | Second | 5 | --:-- | OPEN | OPEN ... | MODB... | | yes | 0.0 | 7 | 1.0 | 0.0 | | | | Not ch... | deacti... |
| CO2 | | Second | 5 | --:-- | OPEN | OPEN ... | MODB... | | yes | 0.0 | 8 | 1.0 | 0.0 | | | | Not ch... | deacti... |
| OA Te... | | Day | | 00:00 | Cosmos | OPEN... | simula... | | yes | 0.01 | | | | | | | Not ch... | activa... |

21. Set the “Time basis” and “Interval”. In the example, the “OA Temp” will be trend at 10 minutes interval.

| Identifier | Description | Time basis | Interval | Time | Protocol | Paramete... | Data Point |
|------------|-------------|------------|----------|-------|----------|-------------|----------------|
| OA Temp | | Minute | 10 | --:-- | Cosmos | OPENweb | simulat.f:D... |

22. Set the last item “Compressing” to “deactivated”. All other settings can be left as default.

| Stop... | Trigger | Consistency | Compressing |
|---------|---------|-------------|-------------|
| | | Not checked | deactivated |
| | | | activated |
| | | | deactivated |

23. Click the “Save” button  to save the settings. Now you should be able to add this trend point in “Trend Visualization”.

| Identifier | Description | Time basis | Interval | Time | Protocol |
|------------|-------------|------------|----------|-------|----------|
| OA Temp | | Minute | 10 | --:-- | Cosmos |