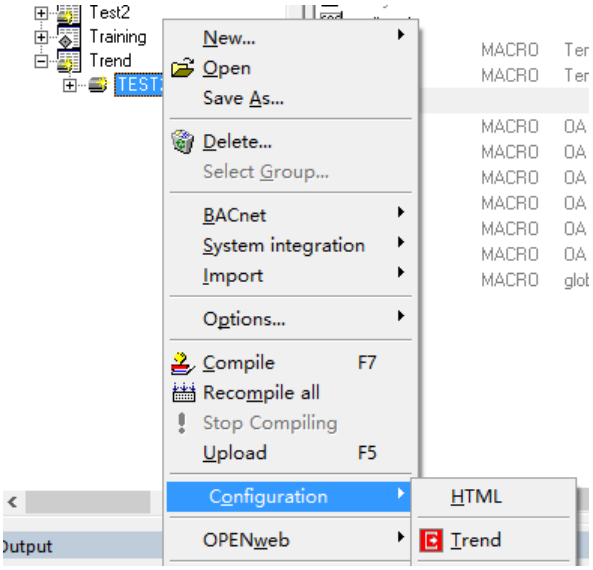
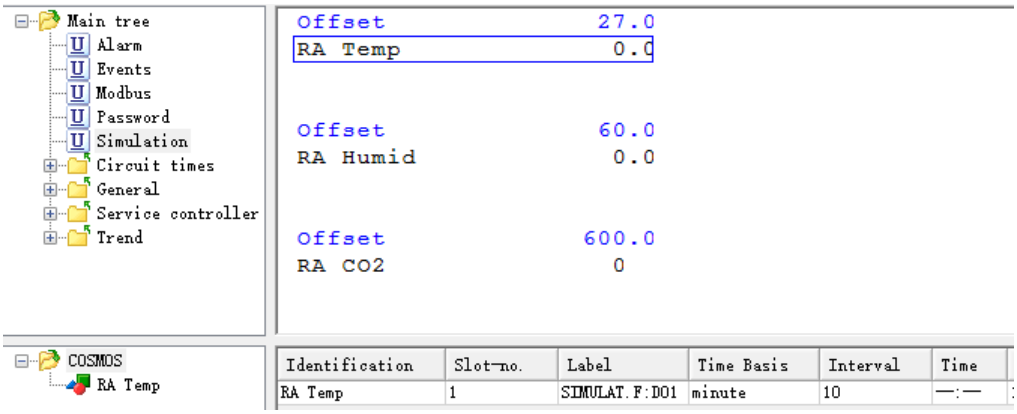
TT181202 – FUP - Trend Setup

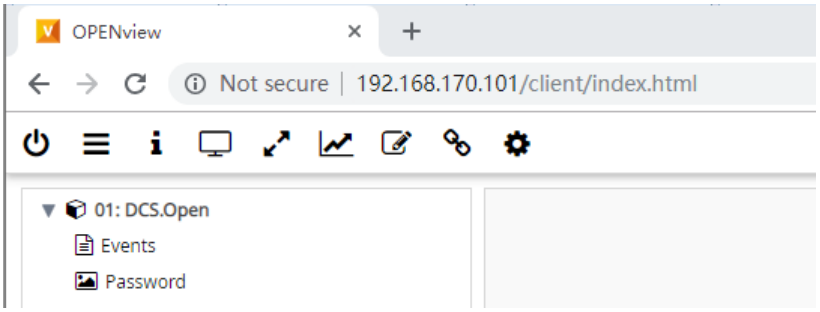
1. To setup trend in FUP, right click on your controller, select “Configuration”, “Trend”



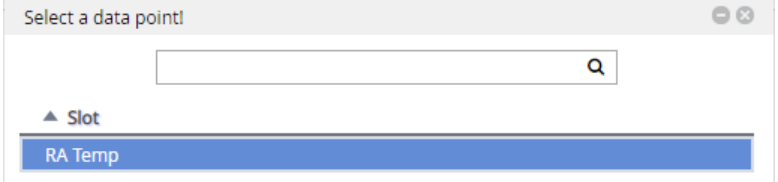
2. Click on the FUP page with your points, drag and drop the point to the table below



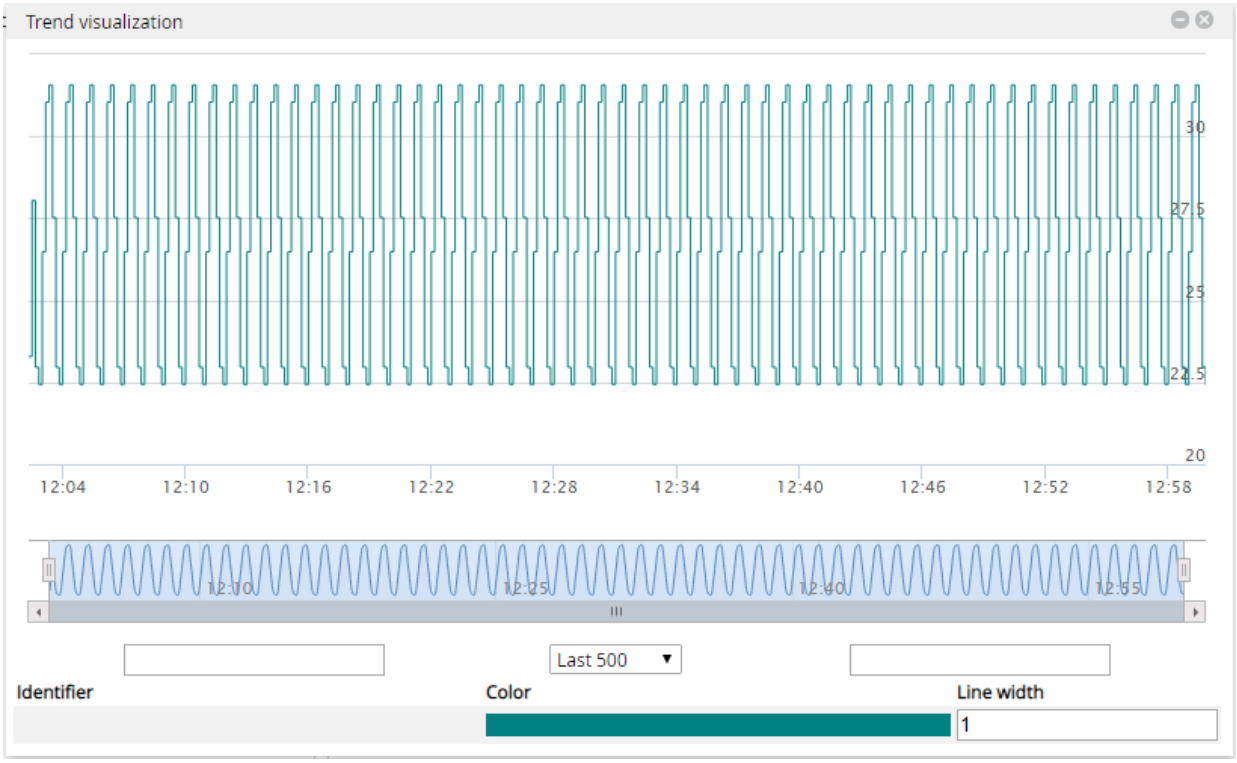
3. Change the “Time Basis” and “Interval” according to your requirement. The default settings of 10 minutes should be OK for most of the time. Please make sure the “Identification” is not empty, and unique for each point. Continue to drag and drop other points if needed
4. Compile and upload the controller. To view the trend data in OPENview, click on the  icon



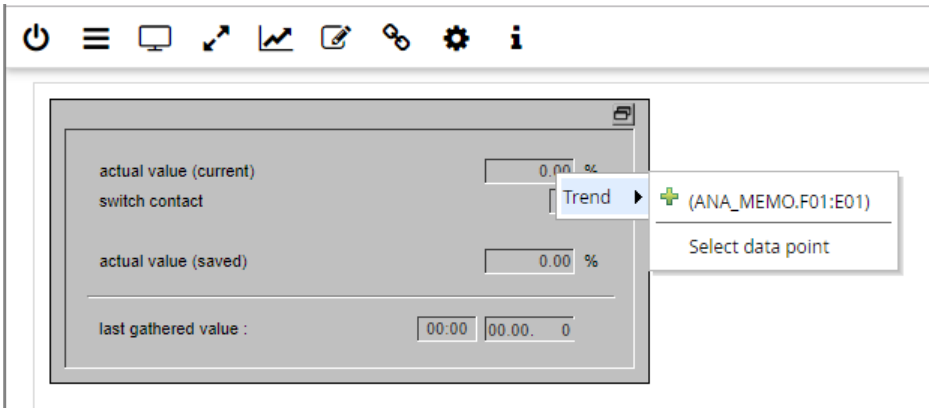
5. Select the point and click OK



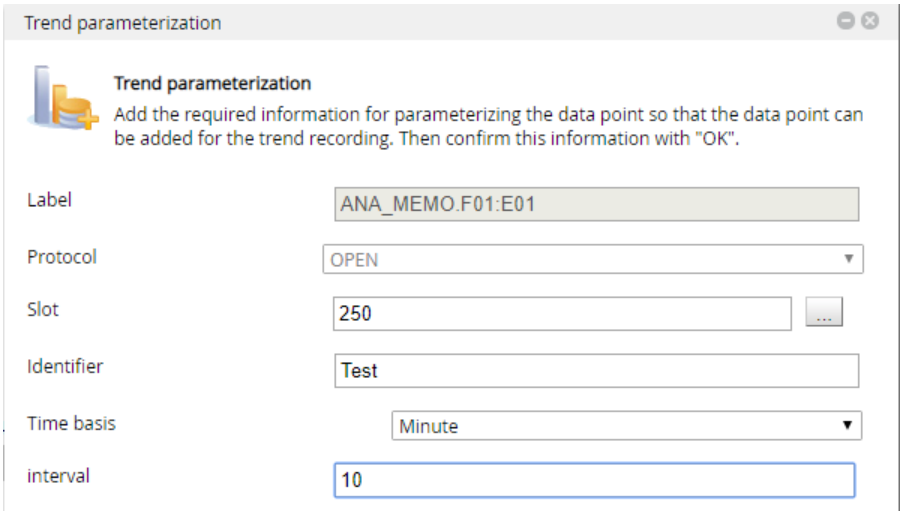
6. Now you can see the trend data. You can use the mouse to point to graph to see the actual value at specific time. You can also select range like “Today”, “Yesterday”, or select the start and stop date/time manually



7. You can also add trend point in OPENview. To do this, go to a graphic page, right click on a point, click “Trend”, and select the point

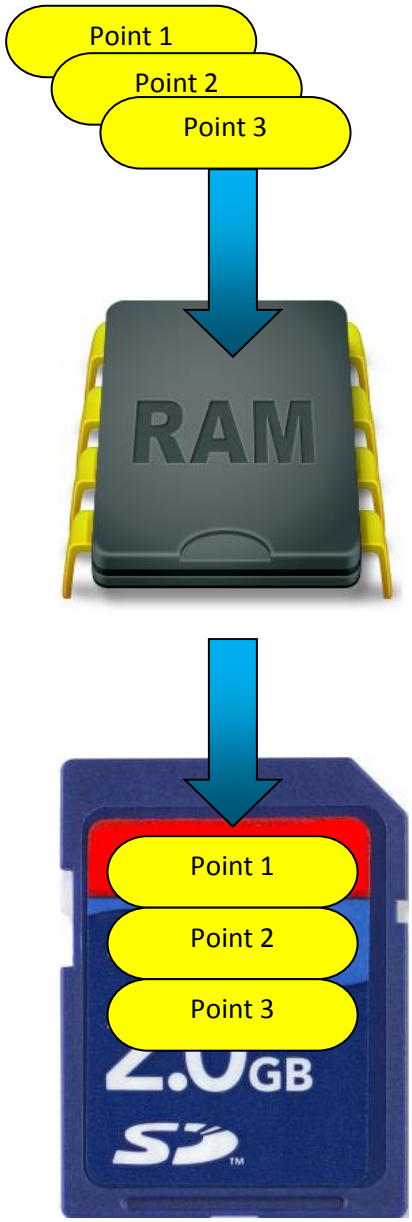


8. Type in the “Identifier”, and select the “Time Basis” and “Interval”. Click OK



Note on OPEN EMS Controller Trend Limits

An OPEN EMS controller can record up to 250 trend data points (slots). Trend data can be set to record periodically (interval), or record by change of value (COV), or when an event is triggered (TRG). This trend data are stored in so-called ring buffers on the SD card. Each trend data point can store up to 70,000 entries, and after that the oldest data of the ring buffer is overwritten.



OPEN EMS can record up to 250 trend data points

The trend data is buffered first in the RAM! Each slot can store for 1,700 entries. Unused slot entries can be shared when other are full

Daily at 00:25 the trend data is transferred to the SD card

Each slot can store up to 70,000 entries. If a slot is full, the oldest data of this slot will be deleted (FIFO)

For example, if you setup the trend to record every 1 minute, for 70,000 entries the SD card can store up to 48.6 days (more than 1 month) for each trend data point. For trend record every 10 minutes, it can store up to 486 days (more than 1 year).

If you setup many trend data points, and if you use COV (or record in less than 1 minute), then you may lost some trend data record if it exceed 1700 entries per day, because there may be no unused slot entries anymore to share in RAM.

If the application of the controller is reloaded, no recorded data will be lost. If there is a power failure, then the trend data from 00:25 until the voltage recovery is lost.