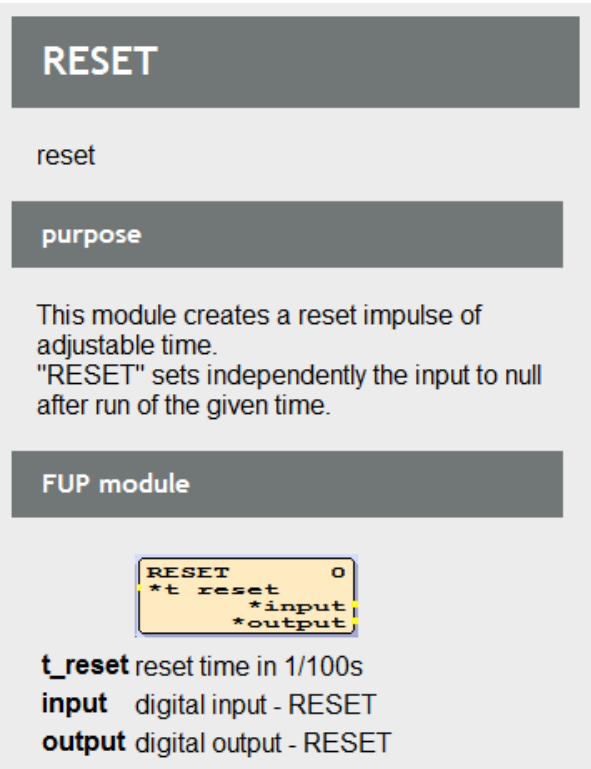
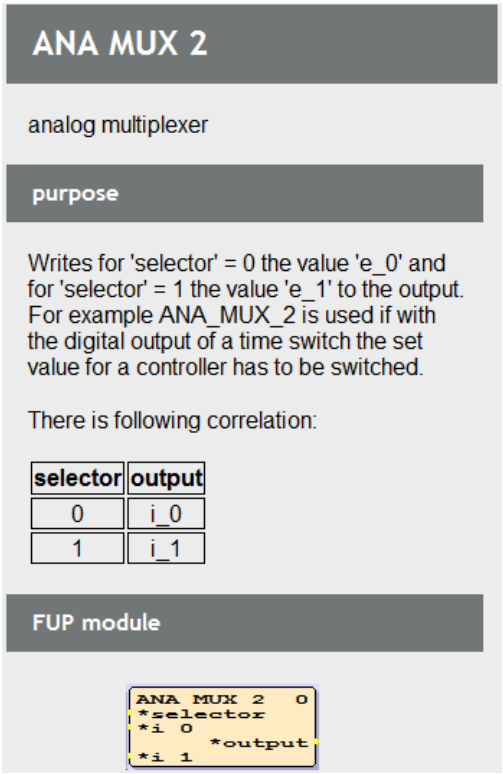
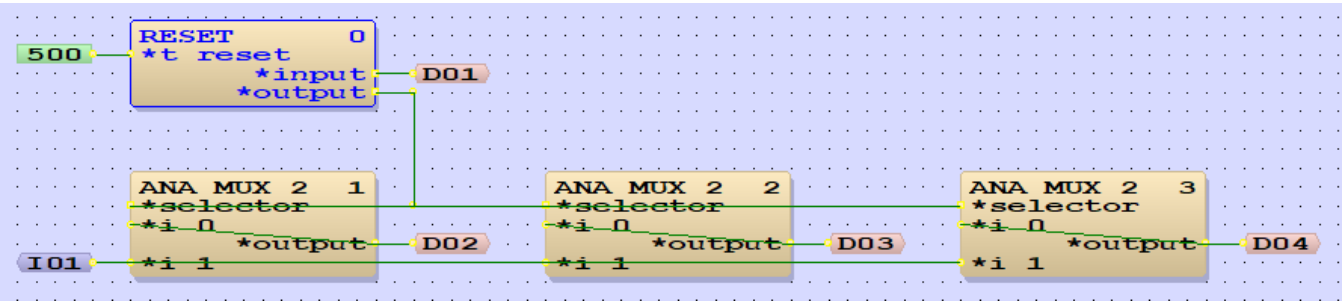
TT220303 – FUP - Global Setpoint Reset

1. For room temperature control, e.g. FCU, user can manually change the setpoint on the room thermostat. Sometime customer wants to reset all the FCU temperature setpoint at night, so that the building can save some energy. This can be done easily with the FUP module “RESET” and “ANA_MUX_2”.

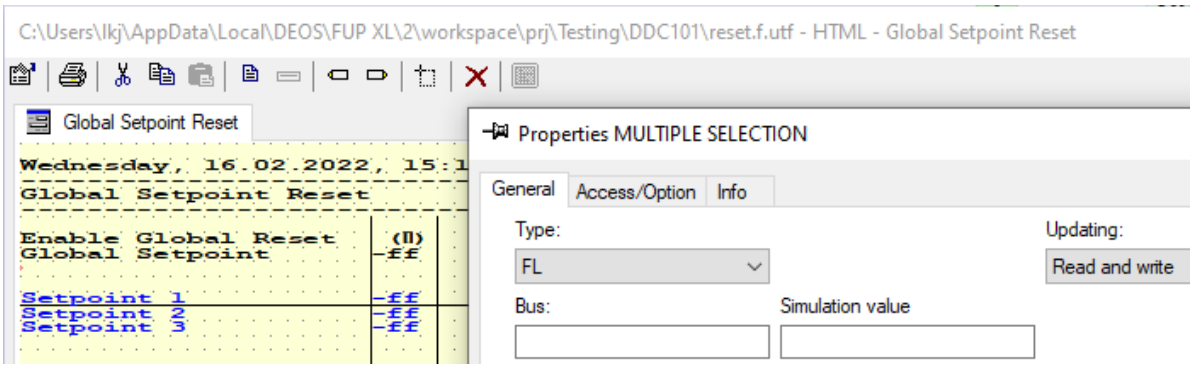




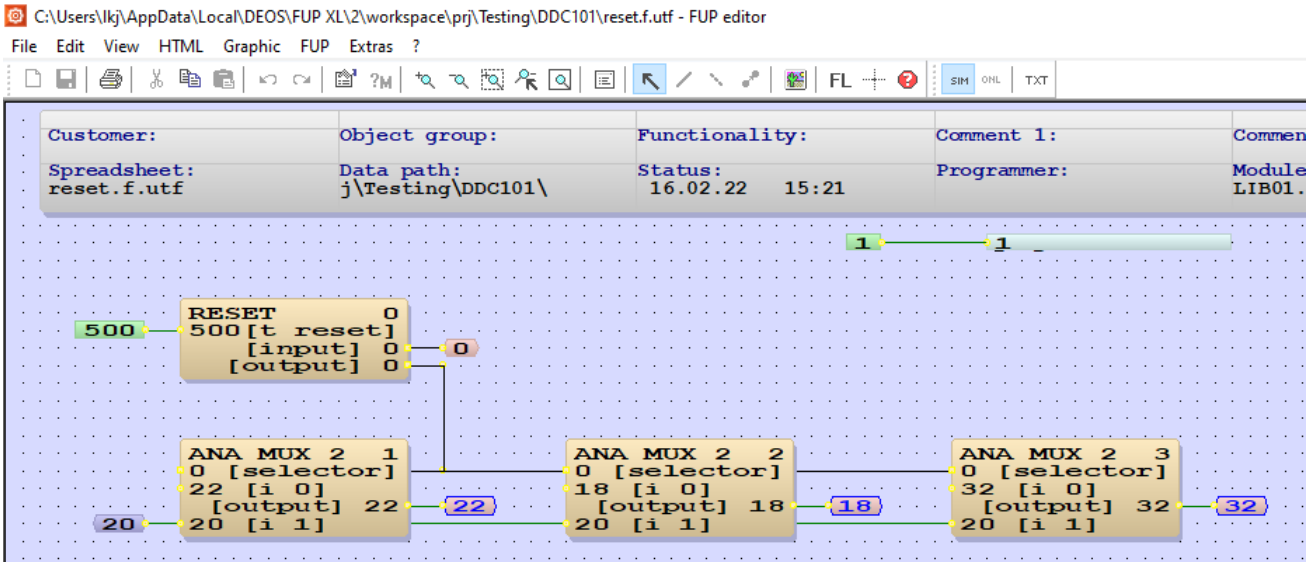
2. The below FUP page has 3 temperature setpoints that you can change individual (D02 to D04). I01 is the global setpoint and D01 is the enable button for the global setpoint reset. Please note there is a link between the “i_0” input and the “output” of the “ANA_MUX_2” module.



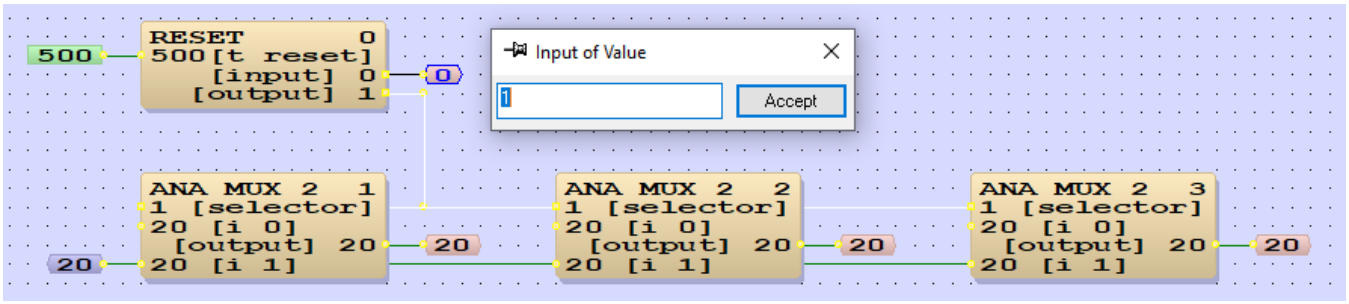
3. This is the HTML page. Make sure you set the “Updating” to “Read and Write” for the individual setpoints as well as the “Enable Global Reset”.



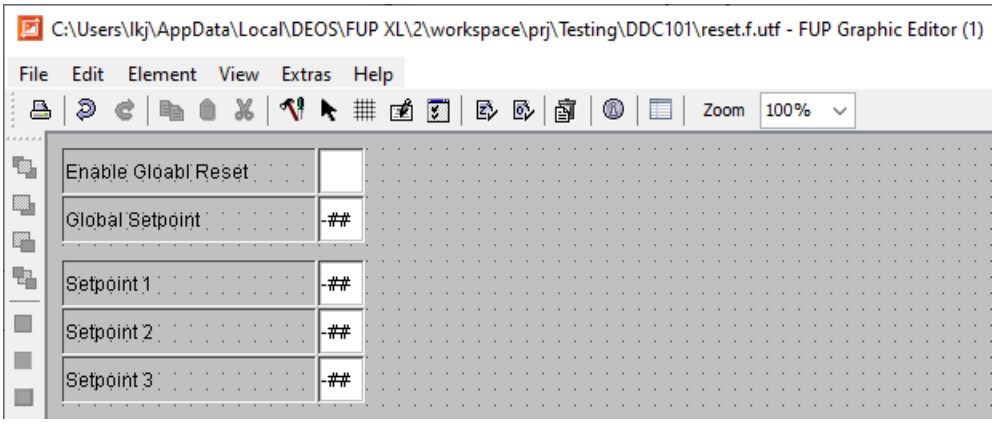
4. Now you can try it in simulation mode. When the “Global Reset” is 0, you can change the setpoints individually. The “Global Setpoint” is blocked by the “ANA_MUX_2” module, because the “selector” input is 0.



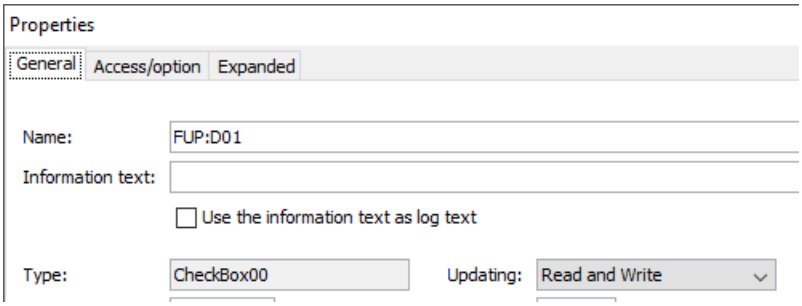
5. When the “Global Reset” is set to 1, the “output” of the “RESET” module will be set to 1 for 5 seconds (because the “t_reset” input is 500). This is then passed to the “selector” of the “ANA_MUX_2” module, and therefore the “Global Setpoint” (i.e. “i_1” input) will be sent to the “output” to reset the individual setpoint.



6. After 5 seconds, the “output” of the “RESET” module will be 0 again, and then you can change the individual setpoint freely afterward.
7. A simple graphic page was added using the checkbox graphic element for the “Enable Global Reset”.



8. Just link them to the Input and Display respectively. Make sure you select “Read and Write” for the “Updating” property of all the points.



9. Now you can test it on the graphic page in simulation mode.