

Hysteresis function component

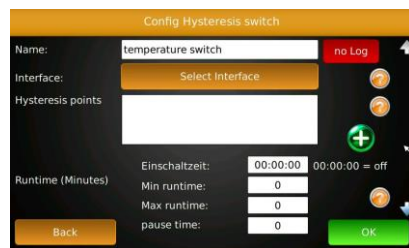
If you want to use a hysteresis function component, then you need to consider following.

Attention!!!

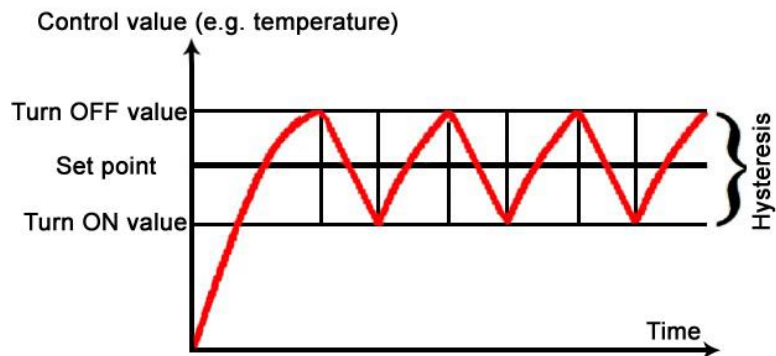
A temperature sensors is required (configured).

Functionality of the component : You own e.g.: a PT-1000 sensor and you want to turn a device on and off at desired temperatures.

- Go to „Controls“ in „Device configuration“. Create a new control function with the green plus
- Go to “Special functions” and create a “Hysteresis”.



- At name enter e.g.: „Temperature switch“.
- At “Interface” select e.g.. „Internal Memory“.
- At “Hysteresis points” press on the green plus.



- At sensor/counter select e.g.: pt1000_1 (temperature_adc).
- The second sensor/counter can stay turned off.

At a hysteresis, not only an ON condition is required, but also an OFF condition.

- Press on the green plus at „Hysteresis points“.

At „2.Sensor/Counter“ you have got the possibility to integrate a second sensor value to the function component. This replacement value (Sensor1, Sensor 2) can be added up or subtracted.

- At „Relational Operator“ select „>(greater)“.
- At „Value“ enter e.g.: 30.
- At „Action“ select „ON“.
- At „Delay ON“ select e.g.: „5“ seconds.
- Confirm with „OK“.

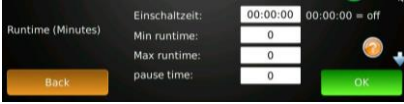


- At sensor/counter select e.g.: pt1000_1 (temperature_adc).
- The second sensor/counter can stay turned off.
- At „Relational Operator“ select „<(lesser)“.
- At „Value“ enter e.g.: 25.
- At „Action“ select „OFF“.
- At „Delay ON“ select e.g.: „5“ seconds.
- Confirm with „OK“.

That means, that the PT1000 sensors turns on with a delay of 5 seconds, when the temperature reaches 30°C or above.

That means, that the PT1000 sensors turns off with a delay of 5 seconds,

when the temperature goes under 25°C.



The screenshot shows a configuration menu with the following fields and values:

Einschaltzeit:	00:00:00	00:00:00 = off
Runtime (Minutes)		
Min runtime:	0	
Max runtime:	0	
pause time:	0	

Buttons: Back (orange), OK (green)

At „Runtime (Minutes)“ you can set the „Turn ON time“, when the hysteresis component enables the output e.g.: 16:00:00. This value is set to OFF at midnight.

At „Min Runtime“ a minimum runtime can be entered like e.g.: 10 Min.

At „Max Runtime“ a maximum runtime can be entered like e.g.: 10 Min.

At „Pause time“ you can select the time span between ON and OFF time e.g.: 20min.

- Confirm with „OK“ until you are in the „Device configuration“ and then go to „Save“.

This function component goes to an „Internal Memory(DO_Virtual)“. Therefore this function component can be linked.

When using a physical output, at „Interface“ this output has to be selected.

Various interface extensions are available in our program. More info at <http://www.eco-data.de>