

Short notice on Temperature Messenger Min Max filters

With the Temperature Messenger software conditions can be defined that must be met before an messenger action is undertaken. Conditions are logical expressions where the actual messenger values like temperature, sensor id etc are tested against static values. The current version of the software includes 2 filter functions:

$b(len)$ reports the minimum measurement value over a period of len seconds back from the actual time up to the actual time, and

$e(len)$ reports the maximum measurement value the same period of len seconds.

The filters can be used in the following way:

Example 1:

$b(3600) > 8$ means that an alarm is given as soon as the minimum measured value between now and one hour past is above 8 degrees. All measurements within this period are above 8 degrees.

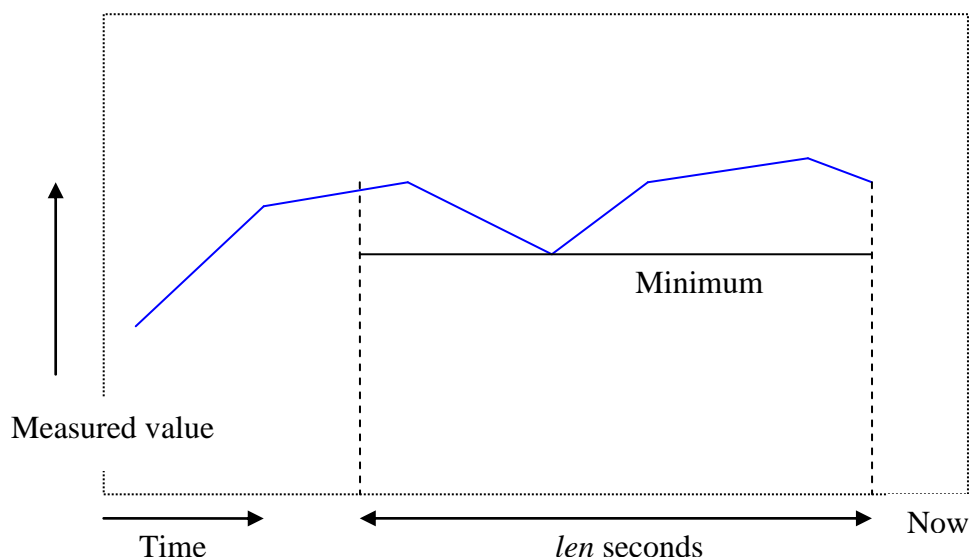


Figure 1: *The minimum value is determined over a period of time starting from the actual time back to len seconds before that.*

Example 2

$e(7200) < 4$ means that an alarm is given as soon as the maximum measured value between now and three hours past is below 4 degrees. This means all measurements within this period are below 4 degrees.

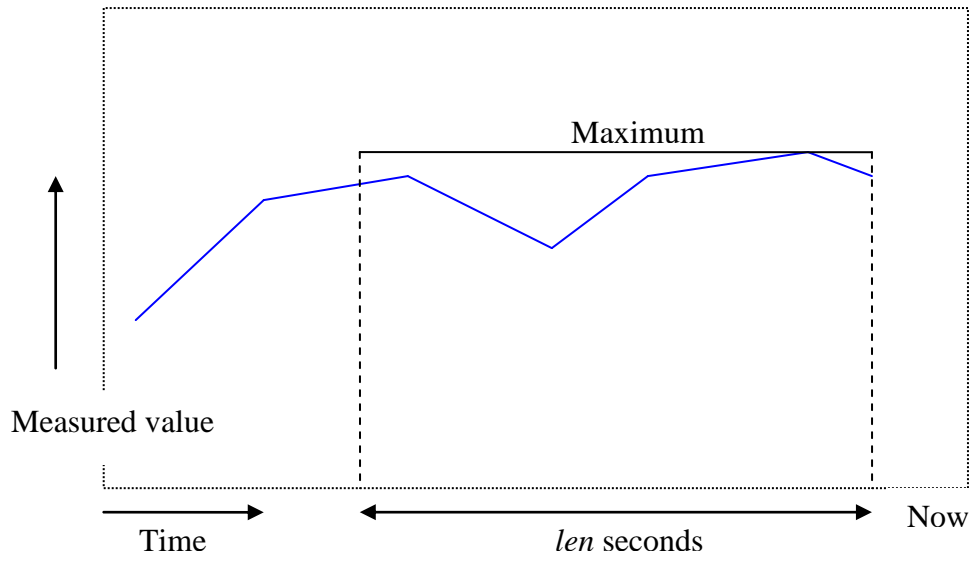


Figure 2: *The maximum value is determined over a period of time starting from the actual time back to len seconds before that.*

Note the filter period is dynamic and is like the running average filter, always related to the actual time.