



## Alarm Filter Latch Example

The example shows how alarms can be filtered by time and latch variables.

### Product description

#### Licensing:

No license is required.



The sample project contained in the CODESYS package uses two visualizations to demonstrate the filtering of alarms. The visualization `Visu_FilterByLatch` filters alarms by the value of a latch variable. The filter type can be a string, IEC type, or number. The visualization `Visu_FilterByTimeRange` shows the filtering of alarms by using time and data values.

### Screenshots

The screenshot displays a control panel for alarm management. At the top left, a table lists alarm events with columns for 'Timestamp', 'Message', and 'Message 2'. Below the table are buttons for 'ACK selected', 'ACK all visible', 'History', and 'Freeze Scr Pos'. On the right, a gauge labeled 'Engine Temperature' shows a needle pointing to approximately 60. Below the gauge, a text box explains: 'Warnings are triggered between 20 and 60. Errors will be triggered above 60. ACK all visible will reset the alarms and engine speed.' At the bottom left, 'Date/Time Filter settings' allow enabling the filter and setting a time range from '01.01.2020 02:00:00' to '01.11.2020 02:00:00'. To the right, 'Time Range Filters' include buttons for 'Last 10 seconds', 'Last hour', 'Yesterday', and 'Current Week'. An 'Alambanner' at the bottom shows a current alarm: '31.08.2020 13:16:53 Error: high temperature: 80.20 Engine speed: 160.40'. A 'Switch visu' button is located at the bottom right.

	Timestamp	Message	Message 2
0	31.08.2020 13:16:53	Error: high temperature: 80.20	Engine speed: 160.40
1	31.08.2020 13:16:51	Error: high temperature: 70.30	Engine speed: 140.60
2	31.08.2020 13:16:49	Error: high temperature: 60.30	Engine speed: 120.60
3	31.08.2020 13:16:48	Warning: Temperature is rising ...	110.60
4	31.08.2020 13:16:47	Warning: Temperature is rising ...	100.60
5	31.08.2020 13:16:45	Warning: Temperature is rising ...	80.60
6	31.08.2020 13:16:43	Warning: Temperature is rising ...	60.00
7	31.08.2020 13:16:41	Warning: Temperature is rising ...	40.00

Timestamp	Message	Message 2	Latch 1
0 31.08.2020 13:20:09	alarm with string latch variables: Error 1 and Error 1 informaton	Another latch variable: 310	Error 1

  

ACK selected

ACK all visible

History

Trigger alarms with latch variables

Filter by Latch Variable 1

Filter type: String

Value:

Filter type Example

String	Error 1
IEC	Int#100
Number	110

Set Latch Filter

Filter by string

Filter by IEC

Filter by number

Disable Filter

  

31.08.2020 13:20:09	m with string latch variables: Error 1 and Error 1 informaError 1	Error 1 information
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Switch visu

## General information

**Supplier:**

CODESYS GmbH  
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**Support:**

<https://support.codesys.com>

**Item:**

Alarm Filter Latch Example

**Item number:**

000118

**Sales:**

CODESYS Store

<https://store.codesys.com>

**Included in delivery:**

CODESYS Package

## System requirements and restrictions

<b>Development system</b>	CODESYS Development System V3.5.16.0 or higher
<b>Runtime</b>	CODESYS Control V3.5.16.0 or higher
<b>Supported platforms and devices</b>	
<b>Additional requirements</b>	-
<b>Restrictions</b>	
<b>Licensing</b>	<div style="text-align: center;">   <b>NO LICENSE</b> </div> <p>No license is required.</p>
<b>Required accessories</b>	-

*Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact [sales@codesys.com](mailto:sales@codesys.com).*

*Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.*