

# CHANNEL RATES

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## Channel rates overview

The **Logging Rate** node is used to define the frequency at which channels are logged. Before you set channel rates, a logging table must be defined (see **Setups - Logging**). You can access the **Channel Rates** node from the home page, the quick tabs on the left of the screen, and the **Logging** node.

## Get started with logging rates

When you first open the **Channel Rates** node, a list of all the default/native channels is displayed in the default logging table. These channels are all set to 'Off' by default. The name of the logging table is configured in the **Logging** node.

Channel Rates	
Channels	Logger 0 : Rate Group 0
Acceleration X	Off
Acceleration Y	Off
Acceleration Z	Off
Battery Voltage	Off
Box Temperature	Off
Car	Off
Day Night	Off
Digital 01	Off
Digital 02	Off
Digital 03	Off
Digital 04	Off
Digital 05	Off
Digital 06	Off
Digital 07	Off
Digital 08	Off
Digital 09	Off
Digital 10	Off
Display Brightness	Off
Distance	Off
Engine	Off
Error Code Trigger Count	Off
EtherCAT Time High	Off
EtherCAT Time Low	Off
Flashing Shift Lights	Off
Flashing Shift Lights Mk2	Off
Free CPU	Off
Global Alarm	Off
Input 01 Voltage	Off
Input 02 Voltage	Off
Input 03 Voltage	Off

Click 'Off' for any entry, and then select one of the available rates from the dropdown menu to set the channel rate.

Channel Rates	
Channels	<b>Logger 0 : Rate Group 0</b> <input type="radio"/> SS <input type="text"/> HS <input type="text"/>
Acceleration X	Off ▾
Acceleration Y	Off
Acceleration Z	1 Hz
Battery Voltage	2 Hz
Box Temperature	5 Hz
Car	10 Hz
Day Night	20 Hz
Digital 01	50 Hz
	100 Hz

## Search channels

When you work with large setups with many channels, you can search the channels through the search bar at the bottom of the screen.

*start typing to filter the selection*

## Standard Search

Type in the node to filter the channel. By typing the channel name, the exact channel can be filtered. This search method must match the channel name exactly to show the result.

Channel Rates	
Channels	<b>Logger 0 : Rate Group 0</b> <input type="radio"/> SS <input type="text"/> HS <input type="text"/>
Battery Voltage	Off
Box Temperature	Off
B	



## Magic search

If the exact name of the channel is not known, you can use the magic search function. Magic search is a 'broad' search tool, which can display results that contain any string. Press **CTRL + Shift + 8** simultaneously. A highlighted star indicates that the magic search is active. Type a specific word or phrase, and then press **CTRL + Shift + 8** again to close the search. An example is shown below.

Channel Rates	
Channels ▲	<b>🌟</b> <b>Logger 0 : Rate Group 0</b> <input type="radio"/>
	SS <input type="text"/>
	HS <input type="text"/>
Box Temperature	Off
*TEMP*	

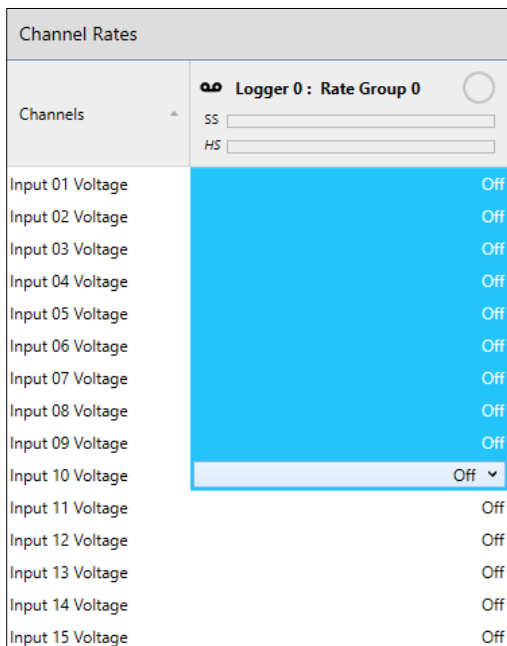
You can also combine multiple terms to search for multiple parts of a channel name in a single search.

Channel Rates	
Channels ▲	<b>🌟</b> <b>Logger 0 : Rate Group 0</b> <input type="radio"/>
	SS <input type="text"/>
	HS <input type="text"/>
PWM Output 01 Voltage	Off
PWM Output 02 Voltage	Off
PWM Output 03 Voltage	Off
PWM Output 04 Voltage	Off
*PW**VOLT*	



## Set multiple channel rates

To define the same rate for multiple channels, select the first channel in the list and shift-click the last channel in the list to highlight all channels in between. Select a logging rate for one of the channels highlighted to apply it to all selected channels.

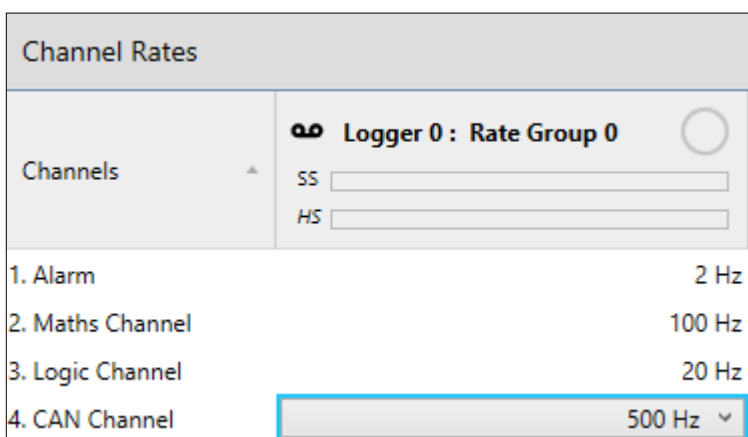


## Channel origins

Like the **Resources** menu, the channel rates list is an easy method to locate and find the origin of each channel. Double-click on a channel name to automatically direct you to the origin of the channel, where you can make edits.

## Channel rates from non-native sources

You can configure the logging rate for channels originating from Alarms, Maths channels, Logic channels, and CAN channels on the **Channel Rates** node.





## High speed logging

On devices such as the Antares, Badenia and Centaurus with high-speed logging capability, the rates can be set for High Speed inputs. High speed rates are marked 'HS'.

Channel Rates	
Channels	Logger 0 : Rate Group 0
	SS <input type="text"/>
	HS <input type="text"/>
Input 01 Voltage	Off
Input 02 Voltage	Off
Input 03 Voltage	1 Hz
Input 04 Voltage	2 Hz
Input 05 Voltage	5 Hz
Input 06 Voltage	10 Hz
Input 07 Voltage	20 Hz
Input 08 Voltage	50 Hz
Input 09 Voltage	100 Hz
Input 10 Voltage	200 Hz
Input 11 Voltage	500 Hz
Input 12 Voltage	1 kHz
Input 13 Voltage	2 kHz
Input 14 Voltage	5 kHz
	10 kHz
	20 kHz

