

# 18.5 Virtual device

## General

The virtual device is a device that you can use to calculate additional math or keep a counter. It doesn't bind to any protocol and only works when its math expression is used.

✔ Virtual device functionality is only available since firmware version v1.6.3, of WCC Lite.

## Configuring Virtual device

To configure WCC Lite to use the virtual device you must configure the device and signal sheets.

*Virtual device parameters for Device tab:*

Parameter	Type	Description	Required	Default value (when not specified)	Range	
					Min	Max
name	string	User-friendly device name	Yes			
description	string	Description of the device	No			
device_alias	string	Device alias to be used in the configuration	Yes			
protocol	string	Selection of protocol	Yes		Virtual device	

*Virtual device parameters for the Signals tab:*

Parameter	Type	Description	Required	Default value (when not specified)	Range	
					Min	Max
signal_name	string	User-friendly signal name	Yes			
device_alias	string	Device alias from a Devices tab	Yes			
signal_alias	string	Unique signal name to be used	Yes			
math_expression	string	Field to calculate specific math. You must enter the signal you want to use.	Yes			

The only field that is a must to use the virtual device is the *math\_expression* field. Here you need to enter the signal which you want to associate it with. Some examples of what it can do:

- Hold a specific tag value.
- Calculate a specific math function with many signals, that you can, later on, pass to another device.
- Add tag value to the current value, to create a counter.