

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 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.

🔄Revision #1

★Created 4 October 2022 07:09:21 by Tautvilis

✎Updated 4 October 2022 08:14:56 by Tautvilis