

# 16.10 VBUS

## Overview

Vbus is a protocol used for communication with solar station automation via serial link.

## Configuration

VBUS parameters for *Device* tab

| Parameter      | Type    | Description  | Required | Default value<br>(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 configuration   | Yes      |                                       |   |       |
| enable         | boolean | Enabling/disabling of a device   | No       | 1                                     | 0   | 1     |
| protocol       | string  | Selection of protocol  | Yes      |                                       | Vbus  |       |
| slave_address  | integer | Slave device address   | Yes      |                                       | 0   | 255   |
| master_address | integer | Master device address  | Yes      |                                       | 0   | 255   |
| device         | string  | Communication port   | Yes      |                                       | PORT1   | PORT2 |
| baudrate       | integer | Communication speed (bauds/s)  | No       | 9600                                  | 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 |       |
| databits       | integer | Data bit count for communication   | No       | 8                                     | 6   | 9     |
| stopbits       | integer | Stop bit count for communication   | No       | 1                                     | 1   | 2     |
| parity         | string  | Communication parity option  | No       | none                                  | none, even, odd   |       |
| flowcontrol    | string  | Communication device flow control option.  | No       | none                                  | none  |       |
| scan_rate_ms   | integer | If provided and positive all reads and writes will be executed within the timeframe in milliseconds. | No       | 10000                                 |   |       |
| poll_delay_ms  | integer | Minimum time delay in milliseconds to wait before sending any data on port.                          | No       | 200                                   |   |       |
| timeout_ms     | integer | Timeout in milliseconds  | No       | 2500                                  | 0   | 60000 |

VBUS parameters for *Signals* tab:

| Parameter | Type | Description | Required | Default value<br>(when not specified) | Range |  |
|-----------|------|-------------|----------|---------------------------------------|-------|--|
|           |      |             |          |                                       |       |  |

|                     |         |   |     | specified) | Min | Max |
|---------------------|---------|---|-----|------------|-----|-----|
| signal_name         | string  | User-friendly device name                           | Yes |            |     |     |
| device_alias        | string  | Device alias from a Devices tab                     | Yes |            |     |     |
| signal_alias        | string  | Unique alphanumeric name of the signal to be used   | Yes |            |     |     |
| enable              | boolean | Enabling/disabling of an individual signal          | No  | 1          | 0   | 1   |
| log                 | integer | Allow signal to be logged.                          | No  | 0          | 0   |     |
| job_todo            | string  | Define tag-function                                 | Yes |            |     |     |
| tag_job_todo        | string  | Define tag action that depends on tag function      | Yes |            |     |     |
| number_type         | string  | Type of a number (FLOAT, DOUBLE, DIGITAL, etc.)     | Yes |            |     |     |
| pulse_short_time_ms | integer | Time interval for short output pulse to stay active | No  | 0          |     |     |
| pulse_long_time_ms  | integer | Time interval for long output pulse to stay active  | No  | 0          |     |     |

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