

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 (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 (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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