

# 16.4 Delta

## Overview

Delta protocol is used to communicate with Delta inverters over serial communication.

## Configuration

Delta parameters for the *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      |                                       | Delta   |       |
| 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 ("none"/"even"/"odd")  | No       | none                                  | None, Even, Odd   |       |
| flowcontrol   | string  | Communication device flow control option. (Default: (case-sensitive): "none")                        | No       | 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  | Yes      |                                       | 0   | 60000 |
| id            | integer | Inverter ID  | Yes      | 0                                     |   |       |
| device        | string  | Communication port   | Yes      |                                       | PORT1   | PORT2 |

Delta parameters for the *Signals* tab

| Parameter           | Type    | Description   | Required | Default value<br>(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 alphanumeric name of the signal to be used         | Yes      |                                       |       |     |
| enable              | boolean | Enabling/disabling of an individual signal                | No       | 1                                     | 0     | 1   |
| log                 | integer | Enable logging in the event log                           | No       | 0                                     |       |     |
| number_type         | string  | Type of a number (FLOAT, DOUBLE, DIGITAL, etc.)           | Yes      |                                       |       |     |
| job_todo            | string  | Tag job as single or multiple comma-separated OBIS codes  | Yes      |                                       |       |     |
| tag_job_todo        | string  | Tag sub job   | Yes      |                                       |       |     |
| pulse_short_time_ms | integer | The time interval for a short output pulse to stay active | No       | 0                                     |       |     |
| pulse_long_time_ms  | integer | The time interval for a long output pulse to stay active  | No       | 0                                     |       |     |

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