

# 16.5 GINLONG

## Overview

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

### GINLONG 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      |                                       | Ginlong   |     |
| baudrate      | integer | Communication speed (bauds/s)<br>(See values 33.1.2)   | 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.<br>(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  | No       | 2500                                  |   |     |
| id            | integer | Inverter ID  | Yes      | 0                                     |   |     |

|        |        |                    |     |  |       |       |
|--------|--------|--------------------|-----|--|-------|-------|
| device | string | Communication port | Yes |  | PORT1 | PORT2 |
|--------|--------|--------------------|-----|--|-------|-------|

GINLONG parameters for Signals tab:

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

🕒Revision #1  
★Created 11 January 2024 09:21:48 by Gabriele  
✎Updated 11 January 2024 09:38:18 by Gabriele