

# 16.7 POWERONE

## Overview

PowerOne protocol is used to communicate with Aurora inverters over serial communication. Serial communication parameters (baudrate, parity, etc.) are handled automatically by the protocol.

## Configuration

PowerOne parameters for *Device* tab

Parameter	Type	Description	Required	Default value (when not specified)	Range	
					Min	Max
Min	Max					
name	string	User-friendly device name	Yes			
description	string	Description of a device	No			
device_alias	string	Alphanumeric string to identify a device	Yes			
enable	boolean	Enabling/disabling of a device	No	1	0	1
protocol	string	Protocol to be used.	Yes		powerone	
serialnumber	integer	Inverter serial number	Yes			
type	string	Inverter type : <ul style="list-style-type: none"><li>• CU - Collecting unit</li><li>• CB - Normal CB</li><li>• HID - HID with integrated CB</li></ul>	No	CU	CU, CB, HID	
device		Communication port	Yes		PORT1	PORT2
baudrate	integer	Communication speed (bauds/s)	No	9600	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200	
scan_rate_ms	integer	Delay before closing serial port 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 of waiting for incoming request in milliseconds	Yes	1000	0	60000
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### PowerOne 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 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 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	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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