Solar-Log™
by Solare Datensysteme GmbH

# ModbusTCP free

**Version 1.3**

Solar-Log™

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# 1 Solar-Log™ ModbusTCP free

The intention of this interface is to give easy access to the Solar-Log™ internal data for external SCADA like systems. The interface is designed to read out main configuration and live data of the attached devices. Possible devices are inverters, digital meters and I/O boxes like pyranometers. The interface is not designed to configure the Solar-Log™ or the attached devices. All configuration must be done via the standard Solar-Log™ Web access either local or remote. Same applies for the alarm functions. All further analysis on the data like performance ratio and alarm situations must be done either in the Solar-Log™ Web or in the external system (SCADA).

ModbusTCP port: 502

Required Solar-Log™ firmware: 2.8.1 Build 49

Slave ID: 1

Implemented Modbus functions:

| | |
|---|---|
| 04 | to read one or multiple 16 bit words |
| 06 | to write one 16 bit word |
| 16 | to write multiple 16 bit words |

## 1.1 Live data compact – summarized (complete plant)

Live data “compact” summarized is mapped from register 3500-3999.

| Data | Unit | Value-Range | Adress | Number Reg. | Func Code | since firmware | Description |
|---|---|---|---|---|---|---|---|
| lastUpdateTime | Sec | 32bit unsigned | 3500 | 2 | 04 | | Unixtime when last register update has happened. 0=no live data yet |
| Pac | W | 32bit unsigned | 3502 | 2 | 04 | | Total Pac of all inverters and inv-type meters |
| Pdc | W | 32bit unsigned | 3504 | 2 | 04 | | Total Pdc of all inverters |
| Uac | V | 16bit unsigned | 3506 | 1 | 04 | | Average Uac of all inverters |
| Udc | V | 16bit unsigned | 3507 | 1 | 04 | | Average Udc of all inverters |
| Daily yield | Wh | 32bit unsigned | 3508 | 2 | 04 | | Summarized daily yield of all inverters |
| Yesterday yield | Wh | 32bit unsigned | 3510 | 2 | 04 | | Summarized daily yield of all inverters |
| Monthly yield | Wh | 32bit unsigned | 3512 | 2 | 04 | | Summarized monthly yield of all inverters |
| Yearly yield | Wh | 32bit unsigned | 3514 | 2 | 04 | | Summarized Yearly yield of all inverters |
| Total yield | Wh | 32bit unsigned | 3516 | 2 | 04 | | Summarized Total yield of all inverters |
| Pac consumption | W | 32bit unsigned | 3518 | 2 | 04 | | Total Pac of all consumption meters |
| Daily yield cons. | Wh | 32bit unsigned | 3520 | 2 | 04 | | Summarized daily yield of all consumption meters |
| Yesterday yield cons. | Wh | 32bit unsigned | 3522 | 2 | 04 | | Summarized daily yield of all consumption meters |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Monthly yield cons. | Wh | 32bit unsigned | 3524 | 2 | 04 | | Summarized monthly yield of all consumption meters |
| Yearly yield cons. | Wh | 32bit unsigned | 3526 | 2 | 04 | | Summarized Yearly yield of all consumption meters |
| | | | | | | | |
| Total yield cons. | Wh | 32bit unsigned | 3528 | 2 | 04 | | Summarized Total yield of all consumption meters |

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