

Solar-Log MOD 485

RS485 Interface Module

The Solar-Log MOD 485 module extends the number of interfaces for the Solar-Log Base and is therefore ideal for connection extensions (inverters, meters etc.). It is connected to the Solar-Log Base via an internal device bus connector (2 items included in delivery). Additional features are simply activated through firmware updates.



Advantages with Solar-Log Base and Solar-Log MOD 485

- **Transparent cost structure**
Only pay for the features you really need
- **Future-proof**
Easily implement new features and modifications (e.g. modifications due to normative changes).
- **Simple**
Easy installation thanks to DIN rail mounting. All necessary licences on board
- **Quick**
Plug and play connection via a bus connector on the Solar-Log Base.

Technical Data

Interfaces

| | |
|---|---|
| Interface for external components (inverter, meter, etc.) | 4x RS485 or 2x RS422 or 2x RS485/1x RS422 |
|---|---|

Visualization

| | |
|-----------------------|--|
| Display on the device | 3 status LEDs, 2 communication LEDs per interface channel (RS485 only) |
|-----------------------|--|

Installation

| | |
|---------------------------------------|--|
| Power supply optional ¹⁾²⁾ | Depending on the output voltage (24V DC (+-5%), if required 12V DC (+-5%)), observe component requirement. |
|---------------------------------------|--|

Solar-Log Base Communication ³⁾

| | |
|--|------------------------------|
| Solar-Log™ HBUS module connector ²⁾ | 2 items included in delivery |
|--|------------------------------|

General Data

| | | |
|--------------------------------|---------------------------------------|--|
| Device voltage ¹⁾⁴⁾ | | 24V DC (+-5%), if required 12V DC (+-5%) |
| Device current ¹⁾⁴⁾ | | max. 1 A |
| Power consumption | | typ. 2 W |
| Power supply ²⁾ | | via HBUS |
| Cable length | | max. 1000 m twisted pair |
| Baud rate/parity/stop bit | | Automatically parameterised by the Solar-Log Base |
| Dimensions / Weight | Housing / Dimensions (W x H x D) | 3TE / 53,6mm x 89,7mm x 60,3mm |
| | Height from top edge of mounting rail | ~54,5mm |
| | Net weight | 125 g |
| Mounting type | DIN rail | TH 35 / 7.5 or TH 35 / 15 to IEC/EN 60715 |
| Connection data | Connection technology | Push-in SPRING CLAMP® |
| | Solid conductor | 0,2 ... 1,5 mm ² / 24 ... 16 AWG |
| | Fine-stranded conductor | 0,2 ... 1,5 mm ² / 24 ... 16 AWG |
| | Fine stranded conductor with ferrule | 0,14 ... 1 mm ² . |
| | Stripping length | 8.5 ... 9.5 mm / 0.33 ... 0.37 inch, with ferrules ≥ 6 mm. Please note the diameter of the plastic collar |
| Material data | Housing material | PC/ABS |
| | Colour | black |
| Ambient conditions | Ambient temperature | -20°C to +50°C (without condensation) |
| | Ambient temperature storage/transport | -20°C to +60°C |
| | Protection rating to EN 60529 | IP20 |
| | Mounting position | any |
| Warranty | | 2 years |

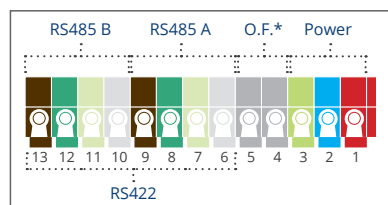
Technical Data

| | |
|--------------------|--------|
| Conformity marking | CE |
| Article number | 256331 |

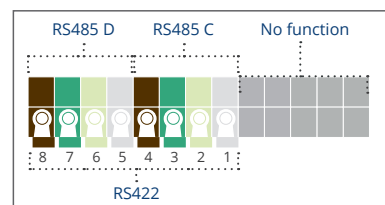
- 1) No power supply unit is included in the scope of delivery. Only use NEC Class 2 power supplies for installations in the US market.
- 2) The Solar-Log™ HBUS module connector is used to supply power and voltage to additional modules connected to the Solar-Log Base. The following aspects must be observed in this regard:
 1. The supply voltage on the Solar-Log™ HBUS module connector corresponds to the supply voltage on the Solar-Log Base.
 2. If the connected Solar-Log MOD 485 module is not separately supplied with voltage, no voltage/power for external components can be drawn from the power supply connections for the interfaces. These connections are not supplied by the Solar-Log™ HBUS module connector.
 3. If it is intended to supply external components via the voltage outputs for the interfaces, an additional voltage supply for the module is absolutely necessary.
- 3) Can only be used with Solar-Log Base firmware 6.x or higher.
- 4) The Solar-Log Base and the Solar-Log MOD 485 module may only be supplied with 12V DC in conjunction with the special Piggy Back (Art 220020).

Connections

Top



Bottom

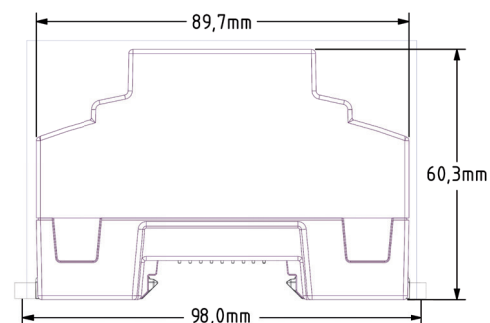
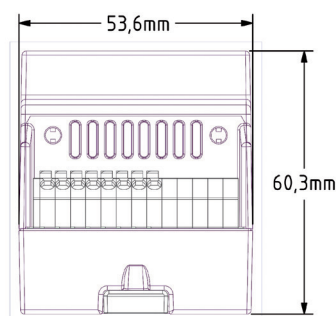


*No function

| Pin/Top | RS485-A/B | RS422 | Power |
|---------|---------------|---------------|----------------------|
| 1 | - | - | Vin 24VDC / (12 VDC) |
| 2 | - | - | GND |
| 3 | - | - | FE |
| 4 | - | - | - |
| 5 | - | - | - |
| 6 | Data + | T/RX+ | - |
| 7 | 24 V / (12 V) | 24 V / (12 V) | - |
| 8 | Ground/GND | Ground/GND | - |
| 9 | Data - | T/RX- | - |
| 10 | Data + | R/TX+ | - |
| 11 | 24 V / (12 V) | - | - |
| 12 | Ground/GND | - | - |
| 13 | Data - | R/TX- | - |

| Pin/Bottom | RS485-C/D | RS422 |
|------------|---------------|---------------|
| 1 | Data + | T/RX+ |
| 2 | 24 V / (12 V) | 24 V / (12 V) |
| 3 | Ground/GND | Ground/GND |
| 4 | Data - | T/RX- |
| 5 | Data + | R/TX+ |
| 6 | 24 V / (12 V) | - |
| 7 | Ground/GND | - |
| 8 | Data - | R/TX- |

Technical Drawings



(Drill hole spacing)