

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
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Visualization

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

Power supply optional ^{1) 2)}	Depending on the output voltage (24V DC (+5%), if required 12V DC (+5%)), observe component requirement.
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Solar-Log Base Communication ³⁾

Solar-Log™ HBUS module connector ²⁾	2 items included in delivery
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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 mm² / 24 ... 16 AWG
	Fine-stranded conductor	0,2 ... 1,5 mm² / 24 ... 16 AWG
	Fine stranded conductor with ferrule	0,14 ... 1 mm².
	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	

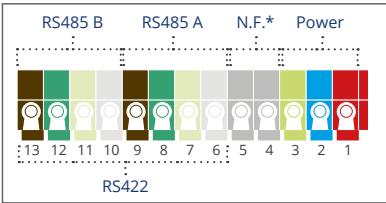
Technical Data

Conformity marking	CE
Article number	256331

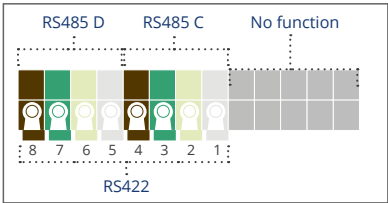
- 1) No power supply unit is included in the scope of delivery. Only use NEC Class 2 power supplies for installations in the US market.
- 2) The Solar-Log™ HBUS module connector is used to supply power and voltage to additional modules connected to the Solar-Log Base. The following aspects must be observed 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

