Instructions for integrating

AC•THOR / AC•THOR 9s / AC ELWA 2

with Growatt
MIDxxx-XH, SPH 3000 – 6000, SPH 5000 – 10000TL3 BH
SPH 5000 – 10000TL3 BH-UP

If the RS485 communication connection on the inverter is still being used by other devices, communication with my-PV is not reliably possible!

A connection with the AC ELWA-E is not possible as it does not have Modbus RTU (RS485) communication!

1. Basic settings on the my-PV device

Before commissioning, it is essential that you read the assembly instructions that accompany the device, as well as the operating instructions available on line.
Find the AC•THOR operation manual **here**.
Find the AC ELWA 2 operation manual **here**.

2. Communication with Growatt (Modbus RTU)

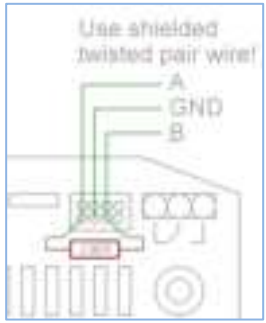
The combination with Growatt was tested by my-PV with SPH 10000TL3 BH.

The three-pole Modbus RTU cable connects the my-PV device directly to the Growatt inverter.

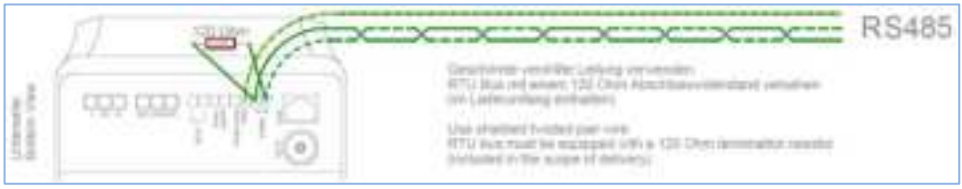
⚠ Use a shielded twisted pair cable and connect the shield to earth (GND) at one end!

⚠ RTU bus must be fitted with a 120 Ohm terminating resistor!

⚠ When controlled via Modbus RTU, the M7 operating mode cannot be used with the AC•THOR!

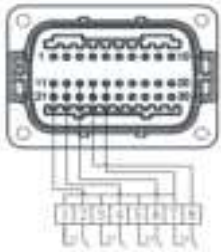


Three pins on the 8-pin connector of the AC•THOR are the Modbus RTU Gateway. The 120 Ohm terminating resistor is not included with the AC•THOR!



On the AC ELWA 2, the connection is identified by RS485, A, B and GND.

The wiring on the Growatt inverters must be carried out using the Growatt instructions.



MID15KTL3-XH : PIN 3 & 4 for my-PV device

No.	Description	Remarks
1	+12V	Dry junction : external relay coil interface, power is not more than 2W
2	COM	
3	RS485A1	RS485 communication port
4	RS485B1	

If you have any questions about the RS485 connection to your inverter, please contact Growatt Support: **service.de@growatt.com**

⚠ According to Growatt, inverters that are not SPH-UP may need to be updated to the latest firmware version for communication via RS485. To do this, send the Growatt serial number and a brief explanation to service.de@growatt.com.

⚠ When controlled by an inverter, a meter at the feed-in point is required in the system. Otherwise, the inverter query does not provide any data.

3. Settings on my-PV device

Select the "Growatt (Modbus RTU)" control unit on the display.

Alternatively, these settings can also be made on the web interface. To do this, the my-PV device must also be integrated into the local network.

If there is a battery storage unit in the system and this is to be charged as a priority, then the “control target” should be set to -150 W. Otherwise, we recommend leaving it at -50 W.

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Subject to change without notice.