

Instructions for combining  
**AC•THOR / AC•THOR 9s / AC ELWA 2**  
with  
**Deye via Modbus RTU**



**Note!**

- If the RS485 communication port on the inverter is already in use by other devices, communication with a my-PV device cannot be reliably established!
- It is not possible to connect to the AC ELWA-E, as it does not support Modbus RTU (RS485) communication!

## 1 Default settings on the my-PV device

Before commissioning, read the assembly instructions delivered with the device and the operating instructions available online.

The AC•THOR operating instructions can be found [here](#).

The AC ELWA 2 operating instructions can be found [here](#).

## 2 Connection to the my-PV device (Modbus RTU)

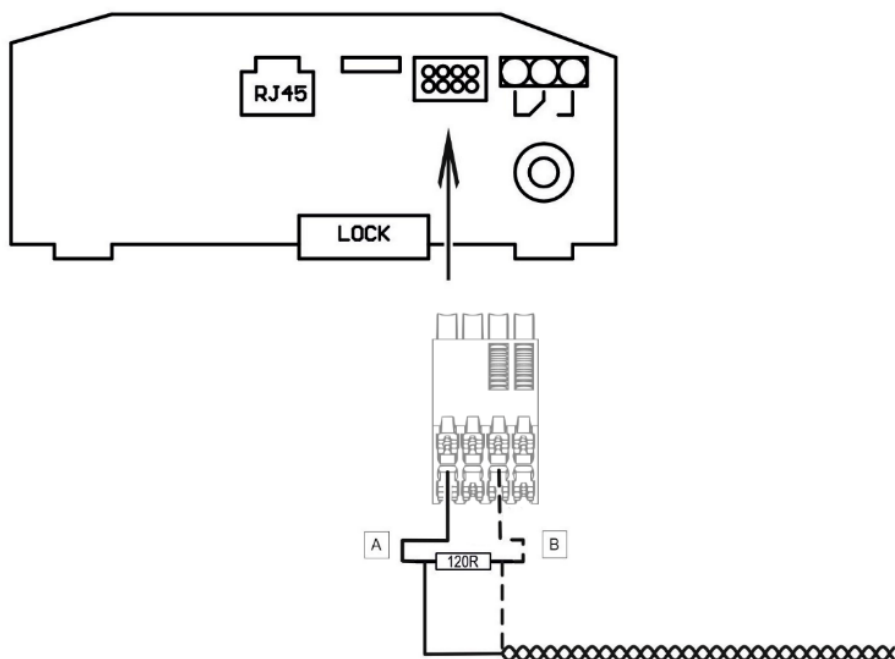
The my-PV device is connected directly to the Deye inverter via shielded twisted-pair cable (for example CAT-Cable).

**Note!**

- Use a shielded cable with twisted wires (e.g. CAT cable) and connect the shield to earth (GND) at one end!
- Fit the RTU-BUS with a 120 Ohm terminating resistor!
- When controlled via Modbus RTU, the M7 operating mode cannot be used with the AC•THOR!

## 2.1 AC•THOR / AC•THOR 9s

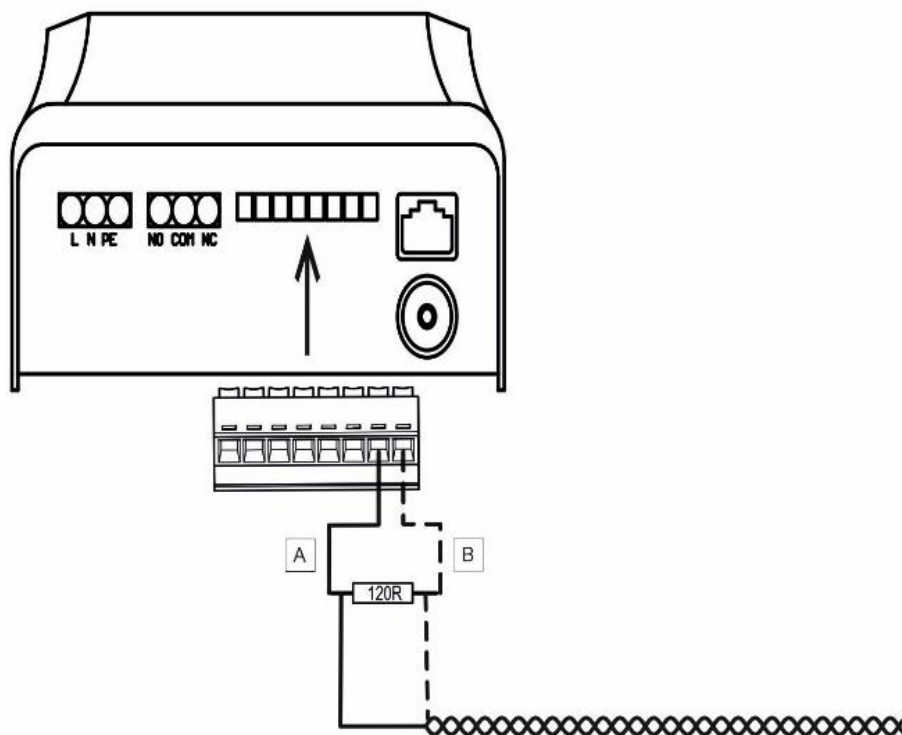
Three pins on the 8-pin connector of the AC-THOR are the Modbus RTU communication connection. The 120-ohm terminating resistor is not included in the scope of delivery and must be purchased separately.



## 2.2 AC ELWA 2

On the AC ELWA 2, the connection is labelled RS485, A, B, GND.

The 120 Ohm terminating resistor is included in the scope of delivery of the AC ELWA 2



### 3 Connection to the Deye inverter

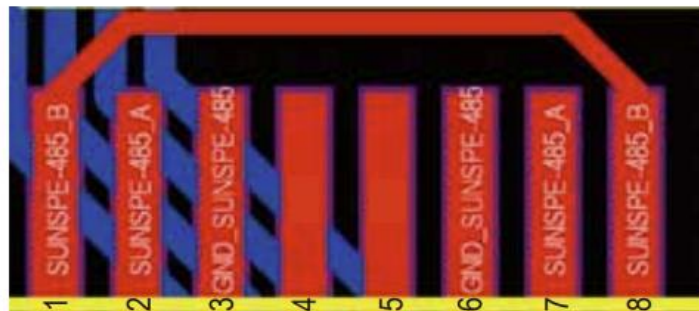
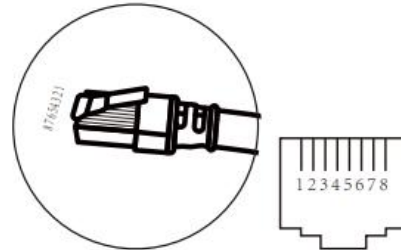
#### Note!

The following information and illustrations have been taken from the Deye Inverter User Manual. my-PV cannot guarantee the accuracy of the information or that the views are up to date.

Definition of RJ45 Port Pin of "Modbus port" for remotely monitoring

| No. | Modbus port |
|-----|-------------|
| 1   | 485_B       |
| 2   | 485_A       |
| 3   | GND_485     |
| 4   | --          |
| 5   | --          |
| 6   | GND_485     |
| 7   | 485_A       |
| 8   | 485_B       |

Modbus port



### 4 Settings on the Deye inverter

#### Note!

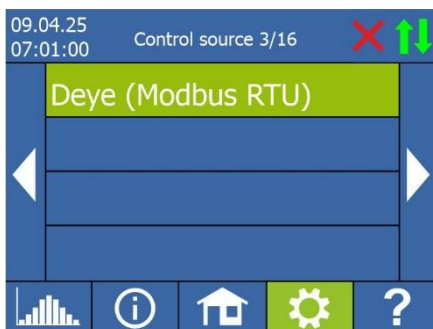
The following information was provided to my-PV by Deye. my-PV cannot guarantee the accuracy or timeliness of this information.

There are no settings to adjust on the Deye inverter.

### 5 Settings on the my-PV device

For Deye the communication parameters are preset from AC•THOR firmware a0022100, for AC ELWA 2 from firmware e002200.

On the display, select "**Deye (Modbus RTU)**" under Control source for the control type.



Alternatively, the settings can also be configured via the web interface. This requires additional integration of the my-PV device into the local network.

If the system has a battery storage unit and you want to prioritize charging the battery storage unit, we recommend leaving the Control target at -150 W the. Otherwise, we recommend setting it to -50 W.

Subject to changes and printing errors.



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