

Instructions for combining AC•THOR / AC•THOR 9s / AC ELWA 2 with

Kostal Plenticore or
Smart Energy Meter (KSEM)



1 Basic settings on the my-PV device

Before commissioning, please be sure to read the installation instructions included with the device, as well as the operating manual available online.

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

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

2 Communication with Kostal

The AC•THOR or AC ELWA 2 are connected to the Kostal via a router within the network. Within this network, the device receives information from the Kostal regarding the amount of surplus solar power available.

Note

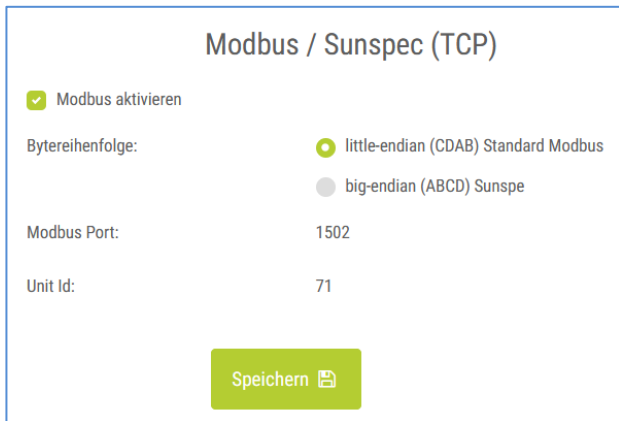
- Do not connect the my-PV device directly to the inverter or the battery system!
- When communicating with the device via the network, it is important that the IP address of the signal source does not change during operation (e.g. due to a DHCP router). Otherwise, the AC•THOR or AC ELWA 2 will lose the control signal.
- If the system is controlled via an inverter query, a feed-in meter is required. Otherwise, the inverter query will not provide any data!

3 Settings on the Kostal

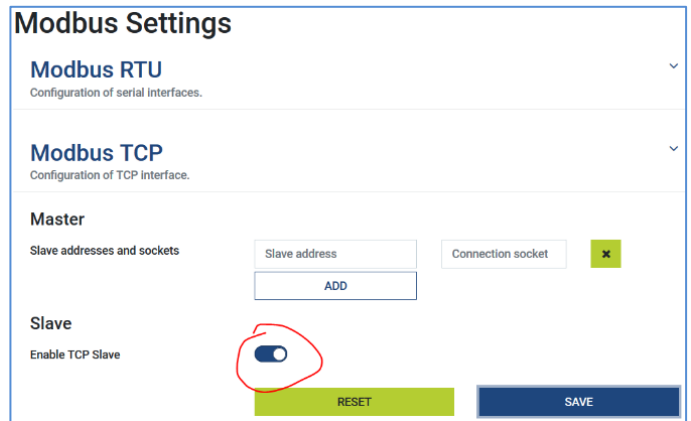
Note!

The following information and images have been provided to my-PV by Kostal. my-PV cannot guarantee the accuracy of the information or that the images are up to date.

When using the “Kostal Plenticore” control option, Modbus TCP must be enabled on the inverter.
When using the “Kostal Smart Energy Meter Manual” control option, go to Modbus Settings → Modbus TCP and enable “Enable TCP Slave”. TLS encryption must also be disabled.



Kostal Plenticore



Kostal Smart Energy Meter

4 Settings on the my-PV device

On the display or in the web interface, select “Kostal Kostal PIKO IQ Ple. Man.” or “Kostal Smart En. M. Man.” under “Control” for the control type.

Then enter the IP address of the Kostal inverter on the display under “Ctrl IP”.



Alternatively, these settings can also be configured via the web interface.

In the web interface, the "Device ID" and "Device Port" parameters for the Kostal can also be adjusted if they differ from the default settings.

For the "Kostal PIKO IQ Plenticore plus Manual" control, my-PV presets Device ID 71 and Device Port 1502.

Control type: Kostal PIKO IQ Plenticore plus Manual

① AC-THOR Number >1: only 'Slave' selectable.

Control source IP address: 0 0 0 0

Device ID: 71

Device port: 1502

Control state: Conn. to Adj.Modbus P=2

Power timeout: 10 s

Control target: -50 W

For the "Kostal Smart Energy Meter Manual" control, my-PV presets Device ID to 1 and Device Port to 502.

Control type: Kostal Smart Energy Meter Manual

① AC-THOR Number >1: only 'Slave' selectable.

Control source IP address: 0 0 0 0

Device ID: 1

Device port: 502

Control state: Conn. to Adj.Modbus P=2

Power timeout: 10 s

Control target: -50 W

The timing of the control should not be changed.

If a battery storage system is present in the system and you wish to prioritize charging the battery storage system, the "Control Target Value" should be set to -150 W. Otherwise, we recommend leaving it at -50 W.

Subject to changes and printing errors.



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