Instructions for connecting

AC•THOR / AC•THOR 9s / AC ELWA 2

to Fronius Gen24 inverter and Smart Meter

1. Default settings on 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 online.

Find the AC•THOR operation manual **here**.
Find the AC ELWA 2 operation manual **here**.

⚠ Note for AC•THOR / AC•THOR 9s from Ethernet-Firmware-Version a0021700

The control types "Fronius Auto" and "Fronius Manual" are no longer supported from this firmware version.

my-PV does not recommend a firmware update for devices operated with one of these types!

Devices on which a firmware update is nevertheless carried out are automatically set to the "Fronius Gen24 Manual" control type.

Modbus TCP communication must be activated on the inverter!
The Sunspec model type "int + SF" must be set on the inverter!

If the previous control type was "Fronius Auto", the IP address of the control unit must be entered manually.

It may be necessary to change the device ID from 241 to 240 in the web setup.

If communication with Fronius is not re-established despite these steps, please contact **support@my-pv.com**. Please also send the **16-digit serial number** of your my-PV device. If necessary, we will reset your device to an earlier firmware version, so that the connection works again.

2. Communication with Fronius

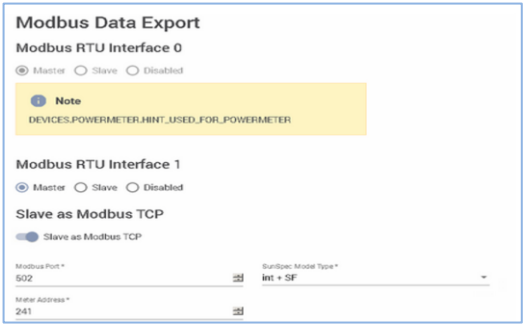
AC•THOR or AC ELWA 2 are connected to Fronius in the network via a router. Within this network, the device receives information from Fronius about how much photovoltaic surplus is available.

⚠ Do not connect the unit directly to the inverter or battery system!

⚠ When controlled by an inverter, a feed-in meter is required in the system. The query of the inverter otherwise provides no data.

3. Settings on Fronius Gen24

- Activate „Slave as Modbus TCP“
- Make a note of the Modbus Port (for my-PV, 502 is preset as the Device port)
- Make a note of the Meter Address (for my-PV, 241 is preset as the Device ID)
- The energy meter must be configured as a feed-in meter. Not as a consumption meter!



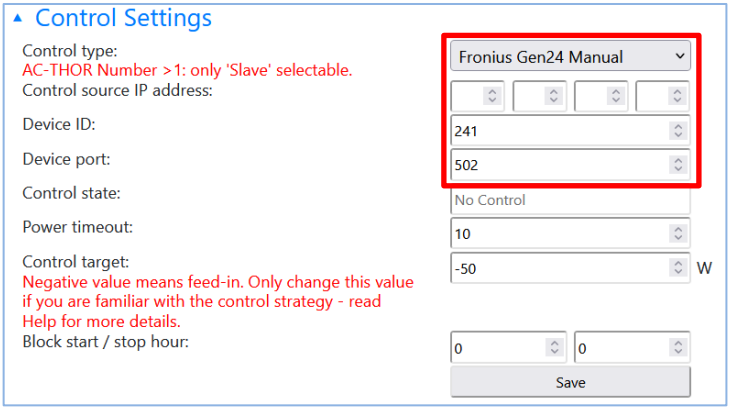
⚠ **When communicating with Fronius Gen24, the IP address of the signal source must not change during operation (e.g. through a DHCP router), otherwise the AC•THOR or AC ELWA 2 loses the control signal!**

4. Settings on my-PV device

Select "Fronius Gen24 Manual" for the control type on the display. The IP address of the signal source must then be statically specified on the display under "Ctrl IP".

Alternatively, these settings can also be made via the web interface. In the web interface, the parameters "Device ID" and "Device Port" can also be set.

For the " Fronius Gen24 Manual" control, my-PV presets device ID 241 and device port 502.



Do not change the "Power timeout".

If there is a battery storage unit in the system and it is to be charged with priority, then the "Control target " should be set to -150 W. Otherwise, we recommend -50 W.

⚠ Note for AC ELWA 2

In addition to the "Fronius Gen24 Manual" control type, there are also the "Fronius Auto" and "Fronius Manual" types. This means that a Fronius Smart Meter can also be queried via inverters other than the Gen24.

With the "Fronius Auto" control type, the my-PV device should automatically detect the signal from the Fronius Smart Meter. No further settings need to be made

With "Fronius Manual", the IP address of the inverter can be specified statically. This is also necessary if there are several signal sources in the network. If a hybrid inverter is installed alongside other inverters, this must be specified as the signal source.

5. Combination with battery storage <u>at zero feed-in</u>

When commissioning a hybrid system with battery storage in conjunction with zero feed into the public grid, special settings are required. Please contact my-PV's technical support for this purpose. We will be happy to help you!

Subject to change.

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