MARSHALL

2023

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# Device Config (Fronius)

1.0 Device Configuration

Part A

Fronius GEN24 Device Configuration

Before interfacing the inverter with the Marshall gateway device, change the inverter configuration to the following. Failure to change the inverter configuration may result in loss of communication between the Marshall device and the inverter.

a. Inverter Export Limits

1. Set the "Mode" using the drop down.

2. Select the "Total DC power" of the Entire System.
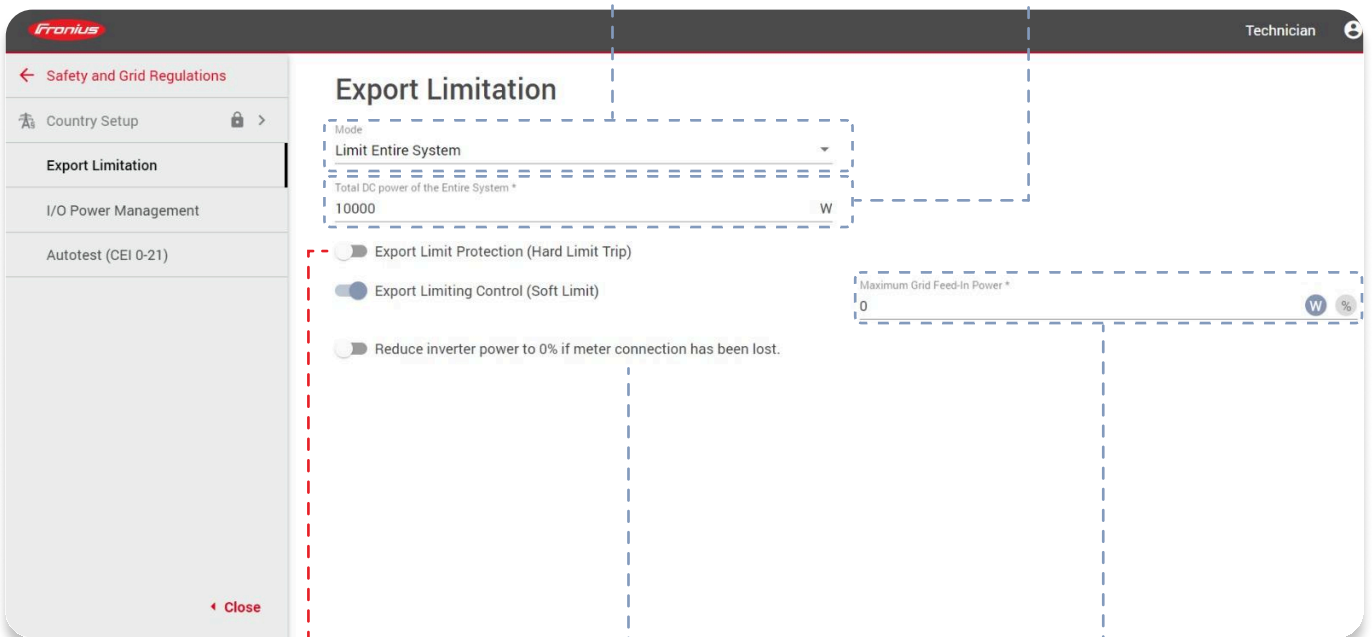
3. Make sure to disable the "Export Hard Limit"

4. Specify the "Maximum Grid Feed-in Power".

5. Disable precautions for Meter Connection lost.

b. Inverter Controlling Priorities

1. Change priorities to each controlling attribute.

c. Inverter Modbus Settings

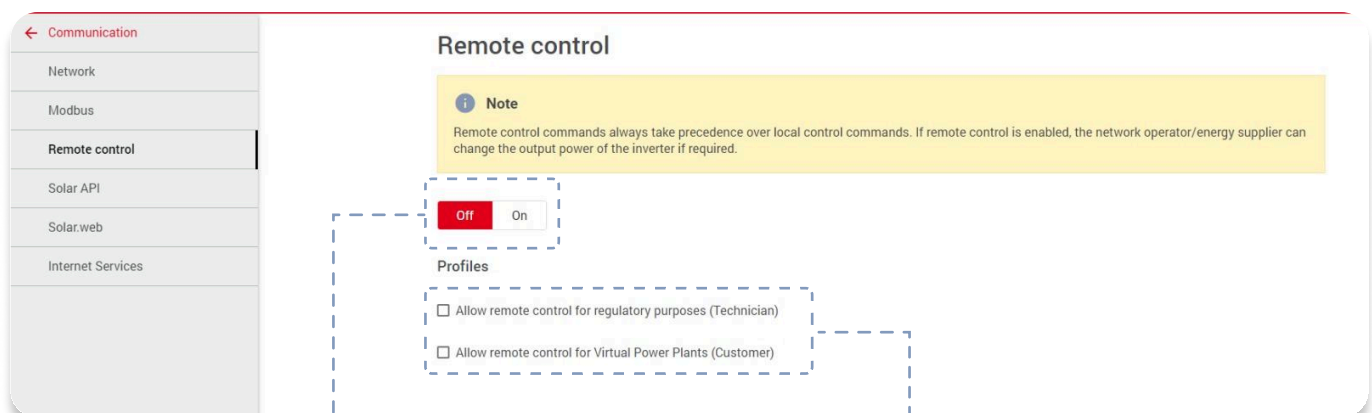1. Select whether the Modbus RTU Interface 0 and 1 acts as a "Master" or "Slave". It can also be disabled.

2. Enable to use Modbus TCP as a Slave.

Communication
- Network
- **Modbus**
- Remote control
- Solar API
- Solar.web
- Internet Services

Modbus Data Export

Modbus RTU Interface 0
- ◉ Master ○ Slave ○ Disabled

Modbus RTU Interface 1
- ◉ Master ○ Slave ○ Disabled

Slave as Modbus TCP
- Slave as Modbus TCP

Modbus Port *	SunSpec Model Type *
502	float

Meter Address *
200

- Inverter Control via Modbus
- Restrict Control
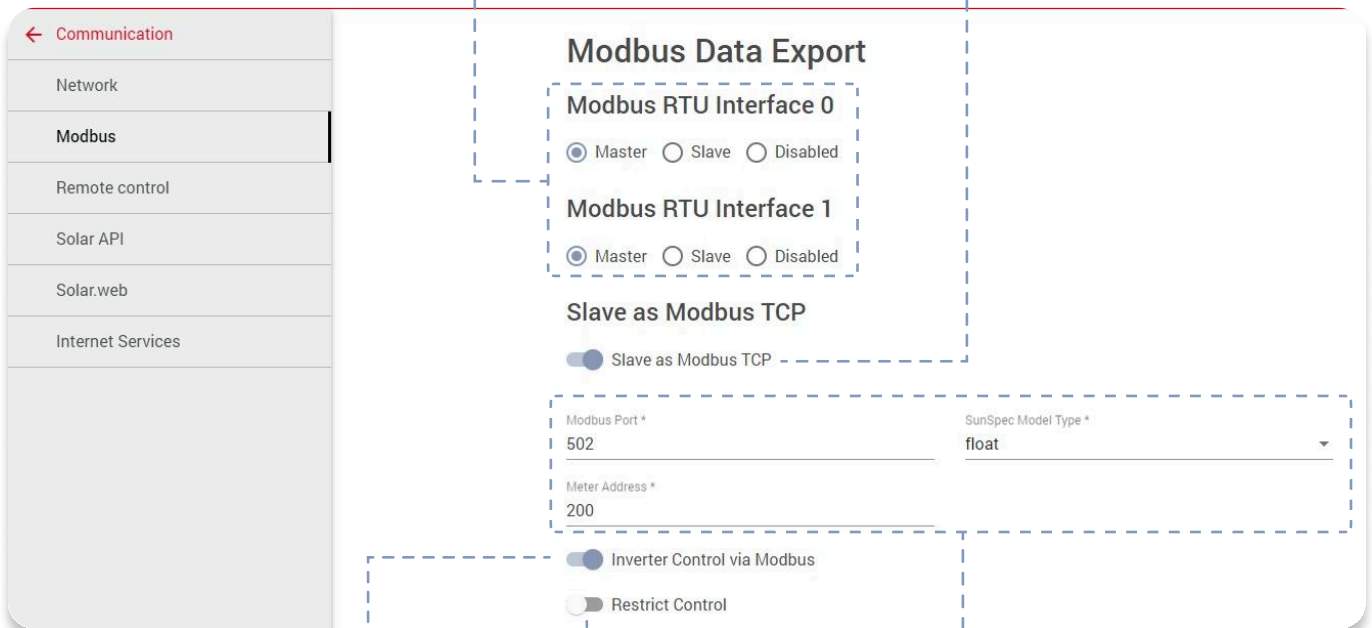
4. Enable Inverter Control via Modbus.

5. Keep Restrict Control disabled.

3. Specify the "Port", "SunSpec Model Type", and "Meter Address".

Communication
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Remote control

ℹ **Note**
Remote control commands always take precedence over local control commands. If remote control is enabled, the network operator/energy supplier can change the output power of the inverter if required.

[Off | On]

Profiles
- ☐ Allow remote control for regulatory purposes (Technician)
- ☐ Allow remote control for Virtual Power Plants (Customer)

6. Disable Remote Control.

7. Extend remote control accessibility to Technicians and Customers.

2.0 Device Configuration

Part B

Fronius SNAP Device Configuration

Before interfacing the inverter with the Marshall gateway device, change the inverter configuration to the following. Failure to change the inverter configuration may result in loss of communication between the Marshall device and the inverter.

a. Inverter Modbus Settings

1. Follow the process as below to set up Inverter Modbus.

b. General Configuration Settings - 3.16.6-1 and Future Firmware

1. Follow the process as below to set up General Configuration.

IO control

unlocked	Input pattern	Active power	Power factor cosφ	DNO output	excluded inverter(s)	
	1 2 3 4 5 6 7 8					
☑	◻︎◻◻◻◼◼◼◼ (1 blue)	☑ 100 %	☐ 1 ○ ind ◉ cap	☑		⊖
☑	◻◼◻◻◼◼◼◼	☑ 60 %	☐ 1 ○ ind ◉ cap	☑		⊖
☑	◻◻◼◻◼◼◼◼	☑ 30 %	☐ 1 ○ ind ◉ cap	☑		⊖
☑	◻◻◻◼◼◼◼◼	☑ 0 %	☐ 1 ○ ind ◉ cap	☑		⊖
☐	◼◼◼◼◼◼◼◼	☐ %	☐ ○ ind ○ cap	☐		⊕

◼ ... not applicable   ◼ ... not considered   ☐ ... pin open   ◼ ... pin closed

↧ Import	↥ Export

AUS - Demand Response Modes (DRM)

Reactive power output (Qrel) for DRM 3 — 0 %
Reactive power consumption (-Qrel) for DRM 7 — 0 %

Dynamic power reduction

Power limit: ○ No limit ◉ limit for entire system
total DC power of the system: 10000 Wp
Maximum grid feed-in power: 0 W ⌄
☐ Reduce inverter power to 0% if meter connection has been lost.

Controlling priorities

⌄ 1. Controlling via Modbus
˄ ⌄ 2. Dynamic power reduction
˄ 3. IO control

Legend:
1 ... highest priority
2 ... medium priority
3 ... lowest priority

Sidebar navigation: PASSWORDS, NETWORK, FRONIUS SOLAR.WEB, IO MAPPING, LOAD MANAGEMENT, PUSH SERVICE, MODBUS, INVERTERS, FRONIUS SENSOR CARDS, METER, DNO EDITOR

C. General Configuration Settings - Older than 3.16.6 - 1 Firmware

1. Follow the process as below to set up General Configuration.

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