Quick Reference Guide

Droplet + Fronius for Flexible Exports (SA)

For SA Power Networks
Flexible Exports

Prepared by:

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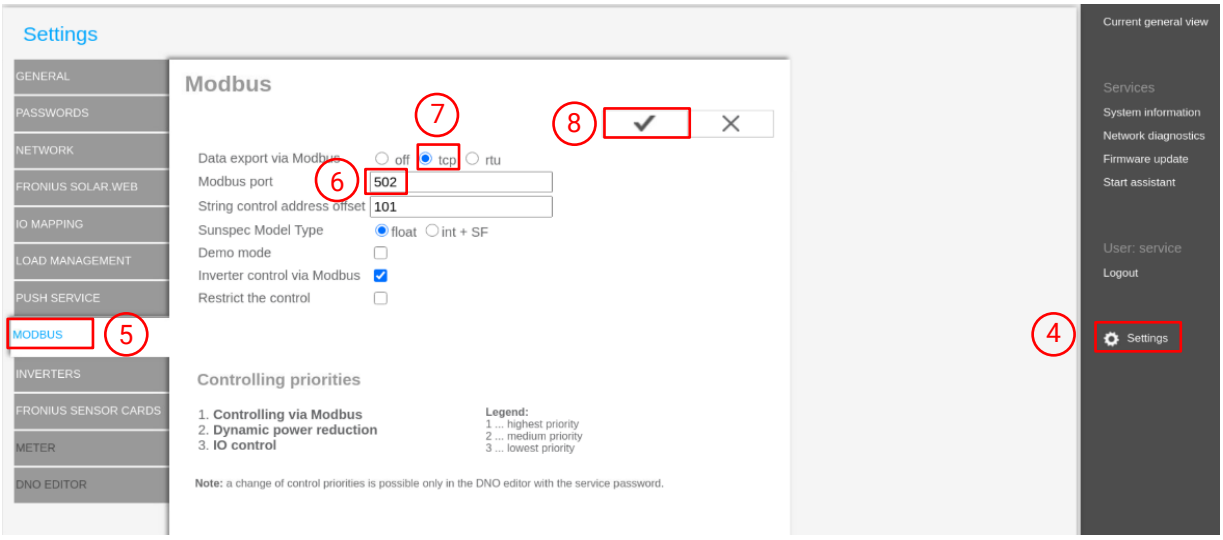
1. Required Hardware & Software Checklist

- ❑ Fronius SnapINverter Primo 3-8.2kW / Symo 3.0-20kW
- ❑ Any compatible Fronius meter
- ❑ SwitchDin Residential Droplet
- ❑ GPO for SwitchDin Droplet
- ❑ Sets of cables (ethernet & ethernet to USB adaptor)
- ❑ SwitchDin App: www.switchdin.com/app

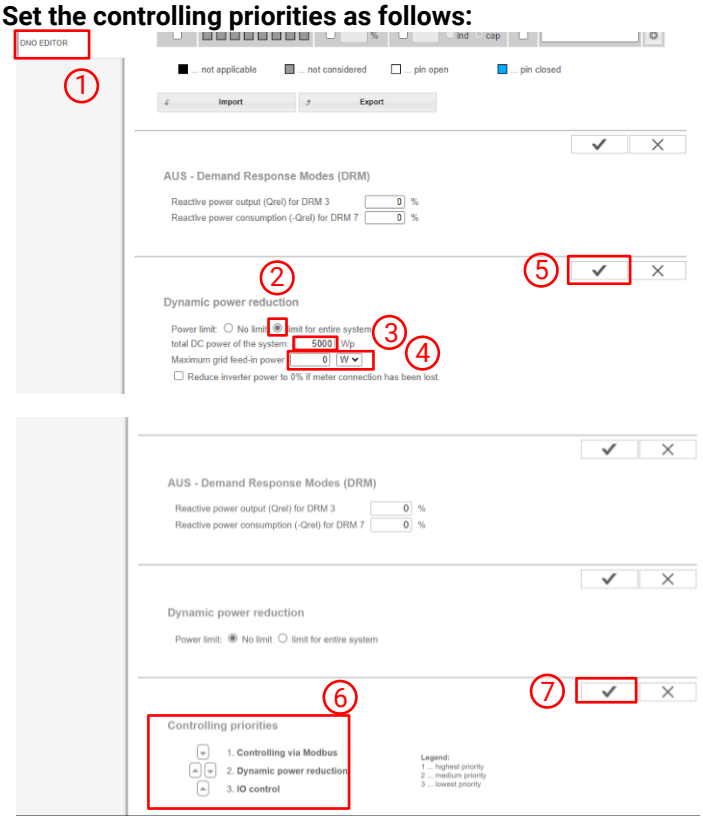
2. Onsite, wire up Smart Meter on grid or load configuration. Refer OTR Wiring Information and Diagram

3. Enable Modbus TCP and port 502 as follows:

1. Install Fronius Datamanager
2. Open an internet browser
3. Enter one of the following into the address field of the internet browser
   - The IP address of the Fronius Datamanager (can be accessed via System Information)
   - Or host name and domain name of the Fronius Datamanager
4. The app will open. Click “Settings” on the right-hand side
5. Select “MODBUS” in the left-hand menu
6. Enter “502” in the Modbus port field
7. Select “tcp” as the data export via Modbus option
8. Click the tick to complete



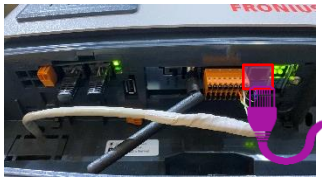
4. Set the controlling priorities as follows:



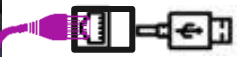
1. Select “DNO Editor” in the side menu
2. In “Dynamic Power Reduction” section, select “limit for entire system”
3. Enter the size of the system
4. In “Maximum grid feed-in power”,
   For Primo/ Symo: set 0W.
5. Click the tick to save.
6. Set the control priorities using the arrows.
   1 - Controlling via Modbus
   2 - Dynamic Power Reduction
7. Click the tick once the priorities have been set to save

5. Wiring the droplet to the inverter
Follow one of the processes below

Using a screwdriver, open the inverter cover



Plug ethernet cable into the inverter port



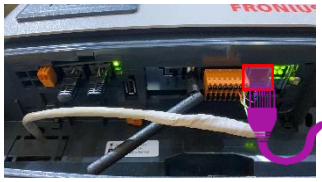
Plug the other end of the ethernet cable into an adapter

Connect the adapter to any USB port on the SwitchDin droplet

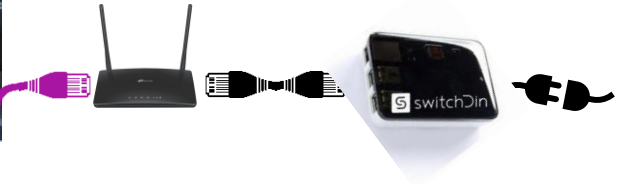
Plug the SwitchDin droplet to a GPO. Connect the droplet to the internet through ethernet cable or Wi-Fi to router

OR

Using a screwdriver, open the inverter cover



Plug ethernet cable into the inverter port



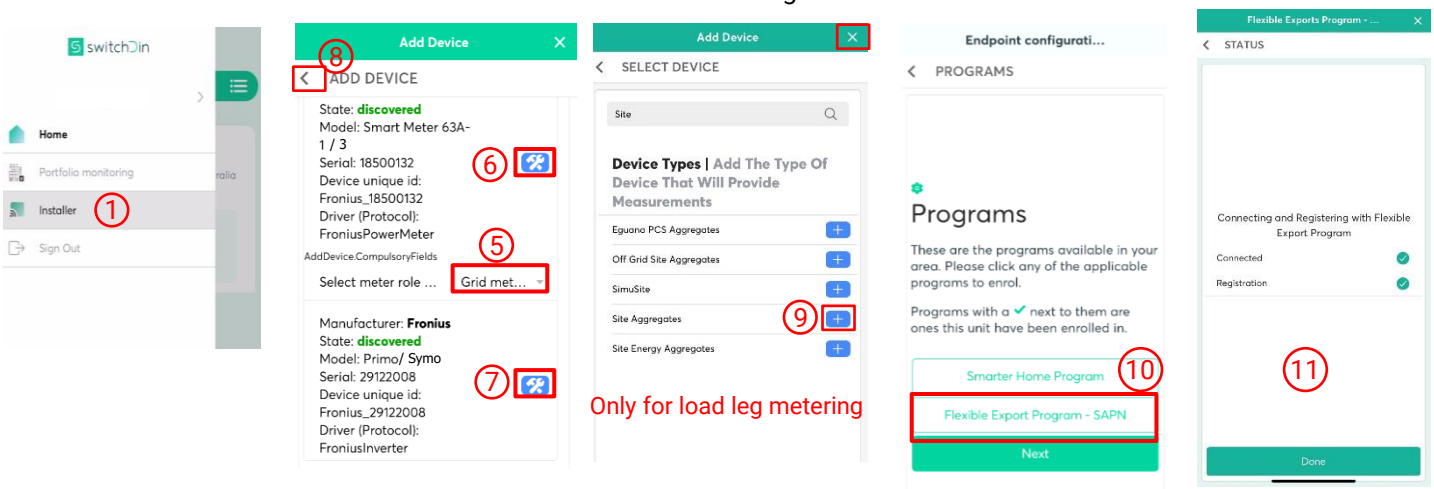
Plug the other end of the ethernet cable into the router

Connect the router to the SwitchDin droplet

Plug the SwitchDin droplet to a GPO.

6. Commissioning

1. In the Installer app, select installer from the side menu, the scanner will start
2. Scan the QR code on the side of the droplet, follow the prompts and select to connect via ethernet or Wi-Fi
3. Add a device by clicking the "+" icon on the bottom right of the screen
4. Select the discovery option
5. Select meter role of "Grid meter" or "Load meter" from the dropdown box
6. Click the configuration button for the smart meter, the message "Configured" appears
7. Click the configuration button for the inverter, the message "Configured" appears
8. If the meter is configured on the load side, click back on the "Add device", select the droplet.
9. Select "Manual" option. Search and add "Site Aggregates", click the "+" icon.
10. Close the "Add device" window, click Next
11. Select the option "Flexible Export program – SAPN"
12. Enter NMI, click next
13. The screen indicates if the connection and registration is successful. Click done.



7. Troubleshooting

1. Droplet status indicator meanings

	Indication	Red	Green	Blue
PWR	Power	N/A	Power	N/A
WIFI	WiFi	No Wi-Fi	Wi-Fi connected	Weak Wi-Fi signal
iNet	Internet	No Internet	Internet connected	Configure via SwitchDin app
SDin	SwitchDin comms	Cannot see SwitchDin	Connected to SwitchDin	N/A
Devs	Devices attached	No devices	Devices detected	N/A

2. Smart Meter Installation Guide
3. SwitchDin Installation video: SwitchDin Fronius Install & Commissioning

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