How to daisy chain Fronius SnapINverters in a Solar Net communication loop

For Fronius Galvo, Fronius Primo, Fronius Symo & Fronius Eco

Quick Guide

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1. SCOPE OF USE

When installing multiple inverters on the same site, it may be easier and more cost efficient to use one full version of the Fronius SnapINverter as the master with and the others can be the light version of the inverters. Another alternative is to set the Fronius Datamanager 2.0 cards to slave mode; ensuring only one inverter is in charge of all communication to the Fronius Solar.web server.

This approach is helpful when export control of multiple inverters is required for the same site.

This can be done via a single communication line from the Fronius Smart Meter to the master Fronius Datamanager 2.0 card.

Important:

/ The Fronius Datamanager 1.0 cannot be set to slave mode
/ For more information on commissioning the Fronius Datamanager card 2.0, Fronius Smart Meter setup or export control please see our Quick Guides
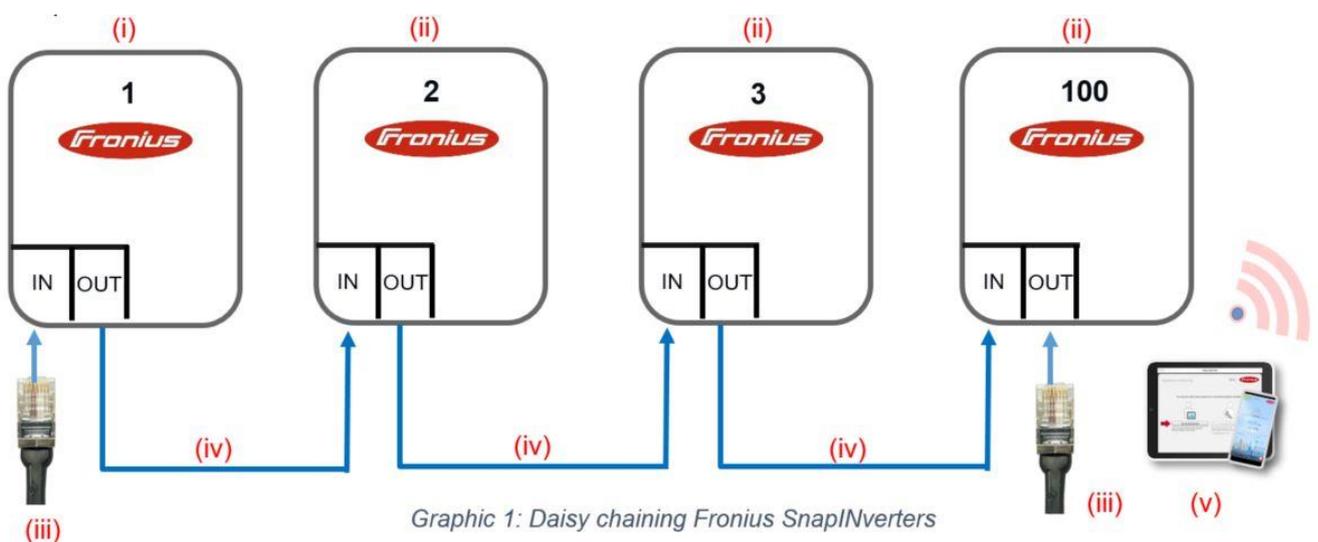/ Visit Fronius Solar YouTube channel for video tutorials

2. INSTALLATION AND COMMISSIONING

2.1 How to daisy chain Fronius inverters in a Solar Net communication loop

When linking several inverters, each inverter must be cabled using a TIA/EIA-568B compliant Ethernet cable.

RJ45 termination plugs supplied with the inverter must be installed in the empty Solar Net IN and OUT connection sockets at the start and end of the daisy chain.

Up to 100 inverters can be connected in a communication loop of up to 100m.

Graphic 1: Daisy chaining Fronius SnapINverters

  (i)   Full version[1] of the Fronius SnapINverter in master mode
  (ii)   Full version[2] of the Fronius SnapINverter in slave mode OR light version[3] of the Fronius SnapINverter

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[1] Full version: Fronius SnapINverter with Fronius Datamanager card 2.0
[2] Full version: Fronius SnapINverter with Fronius Datamanager card 2.0
[3] Light version: Fronius SnapINverter without Fronius Datamanager card 2.0

(iii) RJ45 termination plugs
(iv) Ethernet cable TIA/EIA-568B compliant
(v) Wi-Fi enabled device with Fronius Solar.web app

2.2 Setting the inverter number in the Solar Net loop
To set up the communication between inverters, we must first assign the inverters with their own unique numbers.

To assign the unique number, please follow the steps below:

Enter the **Setup Menu** on the inverter display
Choose **DATCOM** in the Setup Menu
Choose **Inverter Number** in the DATCOM Menu
Number each inverter in sequential order

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