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ELAUSYS

INV-KNX

KNX Gateway for SolarEdge Inverters

User Manual





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1. INTRODUCTION

The KNX gateway for SolarEdge inverters provides a simple solution to transfer all relevant data from the inverters to KNX.

It allows integrators to take advantage of a fully integrated solar panel inverter, the data can be used to optimize energy consumption, monitoring, trending or to trigger specific action in the KNX installation.

Main features:

- KNX Interface for SolarEdge inverters serie
- Monitoring of Energy, Power, current, voltage, frequency, temperature, ...
- Connected to the inverter over Ethernet
- Galvanic insulation from the KNX bus
- Configurable refresh rate of inverter data
- DIN rail mounted
- Auxiliary power supply 12-30VDC

2. OVERVIEW

2.1 USAGE & LIMITATION


This gateway is intended to be used with an SolarEdge inverter compatible with the SMA SunSpec modbus interface definition. The inverter is connected to the ethernet network on the same router as the KNX gateway.

All SolarEdge inverters with SetApp configuration are SunSpec-supported.

SolarEdge inverters with the LCD that have Firmware version 3.xxxx and above only are SunSpec-supported.

2.1 SOFTWARE

The KNX Interface is configured using the ETS tool, the free ETS Demo version can be [downloaded](#) from the website of KNX Association. The free version allows to configure up to 5 KNX modules in a project, the KNX gateway is only one module, all devices can be configured using this version.

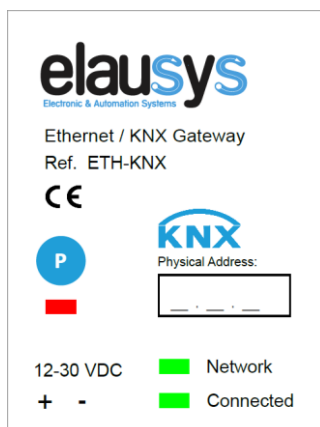
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2.2 CONNECTION DIAGRAM

The KNX bus is connected on the top side of the gateway.
An external power supply 12-30VDC is required and connected on the bottom side of the module, beside the RJ45 connector for the ethernet cable.




2.3 FRONT PANEL



The front panel is equipped with two green status LED:

Network: Physical connection to the ethernet network is established.
Connected: Communication with the inverter is established.

Button "P" : KNX Programming mode button
Red LED : KNX Programming status LED

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3. PARAMETERS

The KNX interface parameters are defined in the “parameters” tab of the device, in the ETS project.


3.1 GENERAL SETTINGS

The following parameters are defined in the General section of the device parameters:

| PARAMETER | VALUES | DESCRIPTION |
|-----------------------|--|--|
| AC Network | <ul style="list-style-type: none"> ▪ Single phase (default) ▪ Tri-Phase | Type of AC network |
| Number of PV Circuits | <ul style="list-style-type: none"> ▪ 1 ... 4 | NOT APPLICABLE for this type of inverters |
| Inverter model | <ul style="list-style-type: none"> ▪ 0...255 | 2 = SolarEdge Inverters |
| Refresh rate (min) | <ul style="list-style-type: none"> ▪ 0...255 | Cyclic rate of data polling from the inverter. |
| Battery 1 | <ul style="list-style-type: none"> ▪ Not Used / Used | Display group objects to monitor the status of battery 1 (NOT USED for this inverter) |
| Battery 2 | <ul style="list-style-type: none"> ▪ Not Used / Used | Display group objects to monitor the status of battery 2 (NOT USED for this inverter) |

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| | | |
|----------------|--------------------------|---|
| Powermeter | ▪ Not Used / Used | Display group objects to monitor the powermeter value |
| Device Options | Text string | Device options are not available on this device. |

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4. COMMUNICATION OBJECTS

4.1 GENERAL


General communication objects of the device.

| GO | NAME | DESCRIPTION |
|----|---------------|---|
| 1 | Module status | Sends 0 when the module is operating normally, sends an error code when applicable. |


4.2 INVERTERS OBJECTS

| GO | NAME | DESCRIPTION |
|----|---------------|---------------------------------|
| 3 | AC Current | AC Total Current value |
| 4 | AC Current A | AC Current phase A |
| 5 | AC Current B | AC Current phase B |
| 6 | AC Current C | AC Current phase C |
| 7 | AC Voltage | AC Total Voltage |
| 8 | AC Voltage AB | AC Voltage phase AB |
| 9 | AC Voltage BC | AC Voltage phase BC |
| 10 | AC Voltage CA | AC Voltage phase CA |
| 11 | AC Voltage AN | AC Voltage phase AN |
| 12 | AC Voltage BN | AC Voltage phase BN |
| 13 | AC Voltage CN | AC Voltage phase CN |
| 14 | DC Current | DC Total Current value |
| 15 | DC Voltage | DC Total Voltage |
| 16 | PV1 Voltage | PV1 Voltage (NOT USED) |
| 17 | PV1 Current | PV1 Current (NOT USED) |

| | | |
|----|---------------------------------|---|
| 18 | PV2 Voltage | PV2 Voltage (NOT USED) |
| 19 | PV2 Current | PV2 Current (NOT USED) |
| 20 | PV3 Voltage | PV3 Voltage (NOT USED) |
| 21 | PV3 Current | PV3 Current (NOT USED) |
| 22 | PV4 Voltage | PV4 Voltage (NOT USED) |
| 23 | PV4 Current | PV4 Current (NOT USED) |
| 24 | AC Power | AC Power |
| 25 | DC Power | DC Power |
| 26 | AC Frequency | AC Frequency |
| 27 | AC VA | AC Apparent power |
| 28 | AC VAR | AC Reactive power |
| 29 | AC PF | Power factor |
| 30 | AC Energy | Total AC Energy |
| 31 | Efficiency | Inverter efficiency (NOT USED) |
| 32 | Insulation | Insulation resistance (NOT USED) |
| 33 | Temperature | Cabinet temperature |
| 40 | Daily Energy Yield | (NOT USED) |
| 41 | Battery 1 Running Status | (NOT USED) |
| 42 | Battery 1 power | (NOT USED) |
| 43 | Battery 1 SOC | (NOT USED) |
| 44 | Battery 1 current day charge | (NOT USED) |
| 45 | Battery 1 current day discharge | (NOT USED) |
| 46 | Battery 1 total charge | (NOT USED) |
| 47 | Battery 1 total discharge | (NOT USED) |
| 48 | Battery 2 Running Status | (NOT USED) |
| 49 | Battery 2 power | (NOT USED) |
| 50 | Battery 2 SOC | (NOT USED) |
| 51 | Battery 2 current day charge | (NOT USED) |


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| | | |
|----|---------------------------------|-----------------------------------|
| 52 | Battery 2 current day discharge | (NOT USED) |
| 53 | Battery 2 total charge | (NOT USED) |
| 54 | Battery 2 total discharge | (NOT USED) |
| 55 | Powermeter | > 0: charging < 0: discharging |


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4.3 GROUP OBJECT LIST


| GO | Name | Function | Size | Flags | Type ID | Type Name | Description |
|----|---------------|--------------|---------|-----------|---------|------------------------|---------------------------|
| 1 | Module status | Status code | 1 byte | C R - T - | 20.011 | DPT_ErrorClass_System | Device status |
| 3 | AC Current | Actual value | 4 bytes | C R - T - | 14.019 | Electric current (A) | AC Total Current value |
| 4 | AC Current A | Actual value | 4 bytes | C R - T - | 14.019 | Electric current (A) | AC Current phase A |
| 5 | AC Current B | Actual value | 4 bytes | C R - T - | 14.019 | Electric current (A) | AC Current phase B |
| 6 | AC Current C | Actual value | 4 bytes | C R - T - | 14.019 | Electric current (A) | AC Current phase C |
| 7 | AC Voltage | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | AC Total Voltage |
| 8 | AC Voltage AB | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | AC Voltage Phase AB value |
| 9 | AC Voltage BC | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | AC Voltage Phase BC value |
| 10 | AC Voltage CA | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | AC Voltage Phase CA value |
| 11 | AC Voltage AN | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | AC Voltage Phase AN value |
| 12 | AC Voltage BN | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | AC Voltage Phase BN value |
| 13 | AC Voltage CN | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | AC Voltage Phase CN value |
| 14 | DC Current | Actual value | 4 bytes | C R - T - | 14.019 | Electric current (A) | DC Total Current value |
| 15 | DC Voltage | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | DC Total Voltage |
| 16 | PV1 Voltage | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | PV1 Voltage |
| 17 | PV1 Current | Actual value | 4 bytes | C R - T - | 14.019 | Electric current (A) | PV1 Current |
| 18 | PV2 Voltage | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | PV2 Voltage |
| 19 | PV2 Current | Actual value | 4 bytes | C R - T - | 14.019 | Electric current (A) | PV2 Current |
| 20 | PV3 Voltage | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | PV3 Voltage |

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| | | | | | | | |
|----|---------------------------------|--------------|---------|-----------|--------|------------------------|-----------------------|
| 21 | PV3 Current | Actual value | 4 bytes | C R - T - | 14.019 | Electric current (A) | PV3 Current |
| 22 | PV4 Voltage | Actual value | 4 bytes | C R - T - | 14.027 | Electric potential (V) | PV4 Voltage |
| 23 | PV4 Current | Actual value | 4 bytes | C R - T - | 14.019 | Electric current (A) | PV4 Current |
| 24 | AC Power | Actual value | 4 bytes | C R - T - | 14.056 | Power (W) | AC Power |
| 25 | DC Power | Actual value | 4 bytes | C R - T - | 14.056 | Power (W) | DC Power |
| 26 | AC Frequency | Actual value | 4 bytes | C R - T - | 14.033 | Frequency (Hz) | AC Frequency |
| 27 | AC VA | Actual value | 4 bytes | C R - T - | 14.056 | Power (W) | AC Apparent power |
| 28 | AC VAR | Actual value | 4 bytes | C R - T - | 14.056 | Power (W) | AC Reactive power |
| 29 | AC PF | Actual value | 4 bytes | C R - T - | 14.057 | Power factor (cos phi) | Power factor |
| 30 | AC Energy | Actual value | 4 bytes | C R - T - | 13.013 | Active energy (kWh) | Total AC Energy |
| 31 | Efficiency | Actual value | 2 bytes | C R - T - | 8.010 | Percentage (%) | Inverter efficiency |
| 32 | Insulation | Actual value | 4 bytes | C R - T - | 14.056 | Resistance (Ohm) | Insulation resistance |
| 33 | Temperature | Actual value | 2 bytes | C R - T - | 9.001 | Temperature (°C) | Cabinet temperature |
| 40 | Daily Energy Yield | Actual value | 4 bytes | C R - T - | 13.013 | Energy (kWh) | |
| 41 | Battery 1 Running Status | Actual value | 2 bytes | C R - T - | - | - | Status code |
| 42 | Battery 1 power | Actual value | 4 bytes | C R - T - | 14.056 | Power (W) | |
| 43 | Battery 1 SOC | Actual value | 1 byte | C R - T - | 5.001 | Percentage (%) | State of charge (%) |
| 44 | Battery 1 current day charge | Actual value | 4 bytes | C R - T - | 13.013 | Energy (kWh) | |
| 45 | Battery 1 current day discharge | Actual value | 4 bytes | C R - T - | 13.013 | Energy (kWh) | |
| 46 | Battery 1 total charge | Actual value | 4 bytes | C R - T - | 13.013 | Energy (kWh) | |
| 47 | Battery 1 total discharge | Actual value | 4 bytes | C R - T - | 13.013 | Energy (kWh) | |
| 48 | Battery 2 Running Status | Actual value | 2 bytes | C R - T - | - | - | Status code |
| 49 | Battery 2 power | Actual value | 4 bytes | C R - T - | 14.056 | Power (W) | |

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| | | | | | | | |
|----|---------------------------------|--------------|---------|-----------|--------|----------------|---------------------|
| 50 | Battery 2 SOC | Actual value | 1 byte | C R - T - | 5.001 | Percentage (%) | State of charge (%) |
| 51 | Battery 2 current day charge | Actual value | 4 bytes | C R - T - | 13.013 | Energy (kWh) | |
| 52 | Battery 2 current day discharge | Actual value | 4 bytes | C R - T - | 13.013 | Energy (kWh) | |
| 53 | Battery 2 total charge | Actual value | 4 bytes | C R - T - | 13.013 | Energy (kWh) | |
| 54 | Battery 2 total discharge | Actual value | 4 bytes | C R - T - | 13.013 | Energy (kWh) | |
| 55 | Powermeter | Actual value | 4 bytes | C R - T - | 14.056 | Power (W) | |


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5. CONFIGURATION

5.1 NETWORK CONFIGURATION

By default, the IP address of the KNX gateway is set to **192.168.1.51**


Using a laptop connected to the gateway, open a web browser and navigate to the IP address of the gateway.



The screenshot shows a web interface with a dark blue background. At the top, there are two tabs: 'Settings' (selected) and 'FW Update'. The 'Settings' section is titled 'Settings' and contains two main panels: 'IP Parameters' and 'MB TCP Parameters'.
 In the 'IP Parameters' panel, there is a radio button for 'DHCP Client' which is unselected. Below it are input fields for 'Ip Address' (192.168.1.51), 'Device Mask' (255.255.255.0), 'Device Gateway' (192.168.1.1), and 'Mac Address' (0:ce:1f:d8:b5:4e).
 In the 'MB TCP Parameters' panel, there is a 'Mode' section with two radio buttons: 'Connect' (unselected) and 'Listen' (selected). Below it are input fields for 'Server Port' (502) and 'Uni Id' (0).
 At the bottom of the settings area, there is a 'Save' button with a downward arrow icon.

Set a fixed IP address of your choice for the KNX gateway and configure the modbus TCP settings as below:

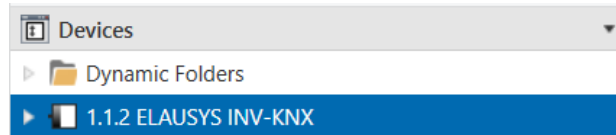
- Mode : Connect
- IP : IP Address of the inverter
- Server Port : 502
- Uni Id : 1

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5.2 KNX PHYSICAL DEVICE

ELAUSYS devices are configured using the ETS tool. You should first download and install the free version of ETS tool before you continue.

The INV-KNX Interface must be assigned a physical address on the KNX network. Assign a free address to the module, in our example we choose 1.1.2.



5.3 ETS PARAMETERS

Once a KNX physical address is set, open the parameter tab to configure the interface.

1.1.30 ELAUSYS INV-KNX > General

| | | |
|-----------------------|--|--|
| <p>General</p> | <p>AC Network</p> <p>Number of PV circuits</p> <p>Inverter model</p> <p>Refresh rate (min)</p> <p>Battery 1</p> <p>Battery 2</p> <p>Powmeter</p> <p>Device options :</p> | <p> <input type="radio"/> Single-phase <input checked="" type="radio"/> Tri-phase </p> <p> <input type="text" value="2"/> </p> <p> <input type="text" value="0"/> </p> <p> <input type="text" value="1"/> </p> <p> <input type="radio"/> Not used <input checked="" type="radio"/> Used </p> <p> <input type="radio"/> Not used <input checked="" type="radio"/> Used </p> <p> <input type="radio"/> Not used <input checked="" type="radio"/> Used </p> <p> <input type="text"/> </p> |
|-----------------------|--|--|


Select the type of AC network (single phase or tri-phase).

Set the inverter model to 2 for SolarEdge inverters.

Choose the refresh rate (min) for the complete set of data.

Select if a powermeter is available on the inverter.

Device options should remain empty.


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5.4 ETS GROUP OBJECTS

A group address (GA) must be assigned to each group object (GO) needed by the application. Open the Group Objects tab of the device and assign a GA to the objects as needed.

| Number | Name | Object Function | Description | Group Address | Length | C | R | W | T | U | Data Type | Priority |
|--------|-----------------------------------|-----------------|-------------|---------------|----------|---|---|---|---|---|-----------------|----------|
| 1 | Module status | Status code | Status | 0/0/1 | 1 byte | C | R | - | T | - | system err... | Low |
| 2 | Firmware version | Text string | FW | 0/0/2 | 14 bytes | C | R | - | T | - | Character... | Low |
| 3 | AC Total Current | Actual value | Value | 1/0/0 | 4 bytes | C | R | - | T | - | electric cur... | Low |
| 7 | AC Total voltage | Actual value | Value | 1/0/1 | 4 bytes | C | R | - | T | - | electric po... | Low |
| 14 | DC Total Current | Actual value | Value | 1/0/2 | 4 bytes | C | R | - | T | - | electric cur... | Low |
| 15 | DC Total voltage | Actual value | Value | 1/0/3 | 4 bytes | C | R | - | T | - | electric po... | Low |
| 16 | PV1 Voltage | Actual value | Value | 1/0/4 | 4 bytes | C | R | - | T | - | electric po... | Low |
| 17 | PV1 Current | Actual value | Value | 1/0/5 | 4 bytes | C | R | - | T | - | electric cur... | Low |
| 24 | AC Power | Actual value | Value | 1/0/6 | 4 bytes | C | R | - | T | - | power (W) | Low |
| 25 | DC Power | Actual value | Value | 1/0/7 | 4 bytes | C | R | - | T | - | power (W) | Low |
| 26 | AC Frequency | Actual value | Value | 1/0/8 | 4 bytes | C | R | - | T | - | frequency... | Low |
| 27 | AC Apparent power | Actual value | Value | 1/0/9 | 4 bytes | C | R | - | T | - | power (W) | Low |
| 28 | AC Reactive power | Actual value | Value | 1/0/10 | 4 bytes | C | R | - | T | - | power (W) | Low |
| 29 | AC power factor | Actual value | Value | 1/0/11 | 4 bytes | C | R | - | T | - | power fact... | Low |
| 30 | AC Energy | Actual value | Value | 1/0/12 | 4 bytes | C | R | - | T | - | active ener... | Low |
| 31 | Inverter efficiency | Actual value | Value | 1/0/13 | 2 bytes | C | R | - | T | - | percentag... | Low |
| 32 | Inverter resistance | Actual value | Value | 1/0/14 | 4 bytes | C | R | - | T | - | | Low |
| 33 | Cabinet Temperature | Actual value | Value | 1/0/15 | 2 bytes | C | R | - | T | - | temperatu... | Low |
| 34 | Manufacturer specific status code | Status code | Value | 1/0/16 | 2 bytes | C | R | - | T | - | | Low |
| 35 | Manufacturer specific status code | Status code | Value | 1/0/17 | 2 bytes | C | R | - | T | - | | Low |
| 36 | Manufacturer specific status code | Status code | Value | 1/0/18 | 2 bytes | C | R | - | T | - | | Low |
| 37 | Manufacturer specific status code | Status code | Value | 1/0/19 | 2 bytes | C | R | - | T | - | | Low |
| 38 | Manufacturer specific status code | Status code | Value | 1/0/20 | 2 bytes | C | R | - | T | - | | Low |
| 39 | Manufacturer specific status code | Status code | Value | 1/0/21 | 2 bytes | C | R | - | T | - | | Low |

When GO and parameters are all configured, download the KNX Interface application to the device. The first download requires to press the programming button on the device to set the device in KNX programming mode then perform a full download.

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5.5 INVERTER CONFIGURATION

MODBUS over TCP Support

MODBUS TCP function– is disabled by default. When enabled, it supports TCP port 502 by default. Port number can be reconfigured.

SolarEdge Device Configuration – Using the Inverter/Commercial Gateway Display (LCD)

To setup MODBUS TCP:

- Select Communication -> LAN Conf -> Modbus TCP (the default port is 502).
- To modify the TCP port, select Modbus TCP -> TCP Port, set the port number and long-press Enter.

SolarEdge Device Configuration – Using SetApp

To setup MODBUS TCP:

- 1 Select Communication -> Modbus TCP -> Enable. A new Port menu is added to the screen (the default port is 1502)
- 2 To modify the TCP port, select Port, set the port number and tap Done.

The default device ID of the inverter connected to the Ethernet is 1.

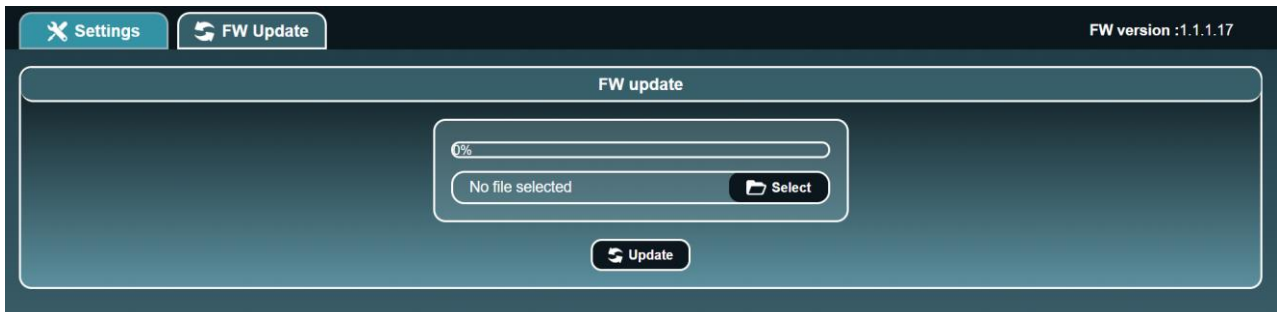
The TCP server idle time is 2 minutes. In order to leave the connection open, the request should be made within 2 minutes. The connection can remain open without any MODBUS requests.

6. FIRMWARE VERSION


This user manual and related ETS application is valid for firmware versions V1.1.4.0 and above.

The firmware version can be read from the gateway webpage using a web browser.

It is displayed on the top right of the page.



In case an updated firmware would be available, the device can be updated from the FW Update page, the binary file should be selected before pressing the Update button.

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7. DATASHEET

| TECHNICAL DATA | VALUE |
|------------------------------------|---|
| Auxiliary power supply terminal | Screw terminal 12-30VDC / GND |
| Power consumption KNX bus typ. | < 16 mA @ 29VDC |
| Operating temperature | +5°C to + 45°C |
| Enclosure Dimensions (Space Units) | 2 SU |
| Mounting | DIN RAIL |
| KNX terminal | Pluggable micro terminal, Red/Black, 4 pole PUSH WIRE for solid conductor wire 0.6-0.8 mm ² |
| KNX bus voltage | 29 VDC |