InsightHome

Owner's Guide

990-91410C

August 2023





http://se.com

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Contact Information

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Information About Your System

As soon as you open your product, inspect the contents and record the following information and be sure to keep your proof of purchase. If any damage is found, contact customer support.

Serial Number	Purchased From	
Product Number	Purchase Date	
Document Number: 990-91410C Model Name:	Date: August 2023 InsightHome	
Product Part Number:	865-0330	

Safety Information

Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

ACAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved. For more information, see Audience.

Product Safety Information

A A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, ARC FLASH, AND FIRE

- Read all instructions, cautionary markings, and all other appropriate sections of this guide before installing, operating, troubleshooting or performing maintenance on the InsightHome.
- Exercise extreme caution at all times to prevent accidents.
- These instructions are for use by qualified installers only.

Failure to follow these instructions will result in death or serious injury.

A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, AND FIRE

- All wiring must be done by qualified personnel to ensure compliance with all applicable installation codes and regulations.
- For Indoor Use Only.
- Do not disassemble. No user serviceable parts inside.
- Do not dispose of the internal battery in a fire or hot oven. Do not crush or cut the internal battery. Follow proper disposal procedures as outlined by your local codes.
- Do not subject the InsightHome to extremely high ambient temperatures or extremely low air pressure as flammable liquid or gas may leak from the battery.

Failure to follow these instructions will result in death or serious injury.

A WARNING

HAZARD OF ELECTRIC SHOCK AND FIRE

Connect only to Safety Extra Low Voltage (SELV) circuits and limited power sources.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTICE

EQUIPMENT DAMAGE

- All cables connected to the InsightHome must run indoors and not be susceptible to lightning strikes.
- Turn OFF all devices before connecting cables.
- Do not connect an Ethernet cable from the InsightHome to the WAN/MODEM port on the network router.
- Do not connect an Ethernet cable plug into a Xanbus port on the InsightHome.
- Do not connect a Xanbus RJ-45 cable plug into the 10/100 Ethernet port of theInsightHome.
- Do not connect any port on the InsightHome to an outside line or to a public telecommunication network.
- Ensure that the device connected on the Xanbus network is in standby mode before changing settings. Do not change any settings unless you are familiar with the device.
- Changes to any TCP/IP-related settings should only be performed by a qualified IT professional.

Failure to follow these instructions can result in equipment damage or affect network performance.

NOTICE

EQUIPMENT DAMAGE

- Do not disassemble the InsightHome.
- See Warranty for instructions on obtaining service.
- The InsightHome contains no user serviceable parts. Attempting to service the InsightHome yourself will void your warranty.

Failure to follow these instructions can result in equipment damage.

NOTICE

EQUIPMENT DAMAGE

- Do not port-forward any InsightHome network ports via a router to the public internet. There
 is a security risk in port-forwarding unencrypted network traffic over a public network
 (Internet).
- Use a VPN or a secure tunnel to route InsightHome communication via the Internet.

Failure to follow these instructions can result in equipment damage.

Audience

This guide is intended for use by anyone who plans to install and operate the InsightHome communications device as part of their power plant system.

Installation instructions are meant for installers only. The installers have training, knowledge, and experience in:

- Installing electrical equipment.
- Applying all applicable installation codes.
- Analyzing and reducing the hazards involved in performing electrical work.
- Selecting and using Personal Protective Equipment (PPE).
- Changing any TCP/IP-related settings.

Configuration, servicing, and maintenance must be performed by authorized service personnel only. Authorized service personnel meet the requirements for an installer, plus they have received specific training from the manufacturer on servicing the InsightHome.

About

Purpose

The purpose of this Owner's Guide is to provide explanations and procedures for installing, operating, configuring, maintaining, and troubleshooting the InsightHome.

Scope

The Owner's Guide provides safety guidelines, planning, and setup information, procedures for installing the product, as well as information about troubleshooting the product. It does not include information on how to install, configure and use other Schneider Electric products.

Firmware Revision

Some InsightHome features and functions described in this Owner's Guide may be incorporated with later firmware versions. This Owner's Guide is valid for InsightHome Version 1.05 (always check the website for the latest firmware and user manual). To view the firmware version on your product, see the InsightHome **About** tab in InsightLocal.

Abbreviations and Acronyms

DHCP	Dynamic host configuration protocol		
LED	Light emitting diode (used for indicator lights)		
SELV	Safety extra low voltage		
TCP/IP	Transmission control protocol/Internet protocol		

Related Documents

For more information about related products, refer to:

- XW Pro Inverter/Charger Owner's Guide (part number: depends on configuration see http://se.com
- Conext XW+ Inverter/Charger Owner's Manual (part number: depends on configuration - see http://se.com
- Conext Automatic Generator Start (AGS) Owner's Guide (part number: 975-0307-01-01)
- Conext System Control Panel (SCP) Owner's Guide (part number: 975-0298-01-01)
- Conext SW Inverter/Charger Owner's Guide (part number: depends on configuration see http://se.com
- Conext MPPT 60 150 Solar Charge Controller Operation Guide (part number: 975-0400-01-01)
- Conext MPPT 80 and MPPT 100 Solar Charge Controller Operation Guide (part number: 990-6214)
- Conext Battery Monitor Owner's Manual (part number: 975-0691-01-01)
- CL Series Installation and Operation Manual (part number: 990-91392B)

Related Information

You can find more information about Schneider Electric's Solar products, as well as its services at http://se.com.

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1 Overview

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Introduction

The InsightHome is a multi-function communication device that provides an overall view of system performance for residential power monitoring systems. It also provides a communications gateway between a network of Xanbus[™]-enabled devices and Modbus devices. Operators can configure the InsightHome system and monitor performance with third party software packages and building management systems.

Note: Depending on your access level, you may not be able to see all of the screens described in this document. For more information, see "User Access Levels" on page 30

A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, AND FIRE

- All wiring must be done by qualified personnel to ensure compliance with all applicable installation codes and regulations.
- For Indoor Use Only.
- Do not disassemble. No user serviceable parts inside.
- Do not dispose of the internal battery in a fire or hot oven. Do not crush or cut the internal battery. Follow proper disposal procedures as outlined by your local codes.
- Do not subject the InsightHome to extremely high ambient temperatures or extremely low air pressure as flammable liquid or gas may leak from the battery.

Failure to follow these instructions will result in death or serious injury.

A WARNING

HAZARD OF ELECTRIC SHOCK AND FIRE

Connect only to Safety Extra Low Voltage (SELV) circuits and limited power sources.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Other features of the InsightHome include:

- Compatibility—connects directly to Xanbus-enabled devices
- Real-time clock—keeps time for the entire system
- Non-volatile memory—preserves the latest InsightHome settings if power is interrupted or network communication is disrupted.
- Firmware storage and upgrade capability—uses the InsightHome to upgrade or downgrade firmware for Xanbus-enabled devices on the network.
- Cloud storage capability—Save and synchronize settings with the InsightHome cloud service.

Compatible Xanbus[™] Components

The InsightHome works with several Schneider Electric products including:

- XW Pro Inverter/Charger
- Conext XW+ Inverter/Charger
- Conext Automatic Generator Start (AGS)
- Conext System Control Panel (SCP)
- Conext SW Inverter/Charger
- Conext MPPT 60 150 Solar Charge Controller
- Conext MPPT 80 600 Solar Charge Controller
- Conext MPPT 100 600 Solar Charge Controller
- Conext Battery Monitor

For details on specific models supported, see Electrical Specifications on page 62. The InsightHome supports up to a maximum of 20 devices on a Xanbus network depending on the device types.

Material List

Figure 1 Material list



NOTE:

- Recycle the packaging box.
- The Wi-Fi password is printed on the InsightHome unit.

InsightHom	ne unit
not shown	12-pin connector (see 12-Pin Connector Pinouts on page 14)

not supplied	Ethernet cable (CAT5e)
not supplied	Power adapter: Manufacturer: CUI P/N: SMI18-12-V-P5 Description: AC-DC Power Supply, 12Vdc Output Voltage, 1.6Adc Output Current

Physical Features

The following illustration shows the InsightHome. The tables in the following sections contain descriptions of the connectors, indicators, and data ports on the InsightHome.



Figure 2Ports, buttons, and indicators

1	Power port	Use for connecting the AC/DC power plug.
2	Xanbus port	Use for Xanbus communications
3	Ethernet port	Use to connect to the internet via an Ethernet cable.
4	12-pin port	Use for connecting the 12-pin connector.
5	USB port	Use for firmware updates only. Do not use to charge USB devices.
6	Power button	Press to enable/disable the InsightHome.
7	LED indicator	The "I" in InsightHome is an LED indicator used for signaling device
		status.

Power Button Operation

Table 1 Power button operation

Press and	Number of	InsightHome operation	
hold duration	beeps		
3 seconds	1	InsightHome will restart	
6 seconds	2	InsightHome will shutdown	
9 seconds	3	User settings will be reset and InsightHome will restart	
12 seconds	4	Factory default settings will be reset and InsightHome will restart	

LED Indicators

The "I" in InsightHome is an LED indicator used for signifying device status. During start-up the green LED blinks until the unit is fully powered on. This takes approximately two minutes.

Figure 3 LED indicators

	Green	Solid	The InsightHome is powered on.
InsightHome	Green	Blink	Device is booting up or logging data to
			internal memory when flashing.
	Orange	Event	Devices on the Power system have events
			to report.

12-Pin Connector Pinouts

Connect Modbus wires to pins 7, 9, and 11 (see Figure 4), and then complete the following steps using InsightLocal:

Figure 4 12-pin connector

	Top Row	1 3 5 7 9 11		Bottom Row
1	Do Not Connect		2	Do Not Connect
3	GND		4	Digital input 2 (12VDC)
5	Do Not Connect		6	Do Not Connect
7	GND ISO	_ 땁땁땁땁땁땁	8	GND ISO
9	RS485 A ISO	2 4 6 8 10 12	10	CAN L ISO
11	RS485 B ISO		12	CAN H ISO

Types of InsightHome Networks

The InsightHome can interface with different LAN devices using wired or wireless connections, so you can configure your Xanbus devices and monitor your power system performance.

- InsightHome on Xanbus
- InsightHome on Modbus (via the 12-pin connector)
- InsightHome on Local Area Network (LAN, via Ethernet or Wi-Fi)
 When the InsightHome is part of a LAN, you can access InsightLocal from a computer on the same LAN via a wireless or wired LAN connection.

An Ethernet connection is required between the InsightHome and a router and computer for configuring the InsightHome.

Power Sources for the InsightHome

The InsightHome consumes an average of 2 W under most operating conditions and up to 10 W maximum. The power sources connected to the InsightHome must be capable of providing this power requirement.

There are two power sources for the InsightHome:

- AC/DC power adapter (not supplied) Manufacturer: CUI
 P/N: SMI18-12-V-P5
 Description: AC-DC Power Supply, 12Vdc Output Voltage, 1.6Adc Output Current
- Xanbus-enabled device via CAT5 or CAT5e cable (Xanbus cable)

Both sources can be used alone or simultaneously. Typically, the AC/DC power adapter is used as a primary source with a Xanbus connection.

A WARNING

HAZARD OF ELECTRIC SHOCK AND FIRE

Connect only to Safety Extra Low Voltage (SELV) circuits and limited power sources.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Safety Extra Low Voltage (SELV) is a designation that refers to a circuit in which the voltages within the circuit and from the circuit to ground have values that are not a shock hazard, under both normal and single fault conditions.

In the InsightHome, the SELV circuits and their intended connections are:

- The AC/DC power adapter connected to the power port of the InsightHome.
- Xanbus communications and power which come from SELV circuits on Xanbusenabled Schneider products.
- Ethernet circuits or Class 2 circuits (Class 2 is a 24V, 100VA limited circuit).

InsightLocal Web Portal

This section describes the elements of the web-based user interface for the InsightHome. This interface is used to check the status of the InsightHome, configure the communications options, monitor and log data for your network, and perform upgrades. The menu bar contains icons for going to the home screen or setup screen, linking to the Schneider Electric Web site, and closing or logging out of the web user interface.

Correct operation of InsightLocal has been verified with the following browsers:

- Google Chrome[™] 78.x or later
- Microsoft® Windows® Internet Explorer® 11.476 or later
- Firefox 110.0.1 (64-bit) or later
- Safari® 5.x or later

Important: JavaScript and cookies must be enabled in your Web browser for the interface to function.

To access InsightLocal, log in with a user name and password. For more details see Logging in to InsightLocal on page 29.

Figure 5 Web user interface



1	Main menu bar – displays major menu items including the Dashboard, Devices,
	Events, and Setup commands. It includes About, which shows InsightHome device
	information.
2	Sub-menu tabs – displays sub-menu items expanding commands associated with the
	major menu items.
3	Main display area
4	InsightLocal version and build number
5	Information bar – displays the system date, time, and user type. Also, contains a link
	to the Disclaimer page and Logout.

2 Installation

What's in This Chapter?

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Power Cycling	

Choosing a Location

Figure 6 Location choices



- Choose a clean, dry, easily accessible location indoors.
- If you mount the InsightHome on a wall, the recommended height is at eye-level so that you can clearly see the LED indicator and have easy access to the data and communication ports.
- All of the ports on the InsightHome are accessible from the bottom of the device when mounted on a wall. Clearance of at least 2 inches (50 mm) below the device is needed to allow for the bending radius of cables that connect to the InsightHome.
- You should not run cables through conduits that can be exposed to lightning strikes. The following are recommended maximum cable lengths in a InsightHome system:
 - 131 feet (40 m) Total Xanbus network
 - 328 feet (100 m) Router to InsightHome
 - 164 feet (50 m) Modbus Master (RS 485) to InsightHome

Materials and Tools Required

The following materials are supplied in the Conext InsightHome package:

- One InsightHome unit
- One InsightHome Quickstart Guide
- One 12-pin connector

The following materials and tools are not supplied but are required to complete the installation:

- CAT5e Ethernet cable(s)
- Modbus network cables(s)
- Wire stripper
- Ferrules
- Screwdriver set
- Pliers
- Diagonal cutter or heavy duty scissors

Mounting the InsightHome

To mount the InsightHome on a wall:

- 1. Choose the location for mounting the device.
- 2. Using the mounting diagram that shipped with your product, mark the mounting holes on the wall with a pencil.
- 3. The holes must be at the same height and 47/16 inches (112 mm) apart.
- 4. Insert the two anchors and mounting screws supplied in the marked locations on the wall, leaving a space of about 1/4 inch (6 mm) between the wall and screw head.
- 5. If you are mounting the InsightHome on concrete, the supplied anchors and mounting screws are not suitable. Use two mounting screws that are equivalent to #6 screws.



6. Place the InsightHome on the mounting screws, and confirm a snug fit before going to the next step.

Note: Before placing the InsightHome, you may want to take a photograph of the label on the back, as it includes important password information.

7. Connect the wiring and cables.

Connecting the InsightHome to the Xanbus Network

Network Sizing Guidelines

	InsightHome
Xanbus Networks	1
Maximum Total Connected XW Pro and MPPT Charge Controllers*	6

* Xanbus Installation Rules:

- The Automatic Generator Starter and Battery Monitor can be added to any system and must be connected on the same Xanbus network as the XW Pro.
- The maximum number of XW Pro inverters is four (4) for single-phase or splitphase, and six (6) for three phase.

Examples of Valid Configurations:

- 3 XW Pro, 3 MPPT connected to InsightHome
- 2 XW Pro, 4 MPPT connected to InsightHome
- 4 XW Pro, 8 MPPT connected to InsightFacility network #1 and #2 respectively

To connect the InsightHome to the Xanbus network:

- 1. Connect the InsightHome to the Xanbus network using daisy chain configuration.
 - a. Xanbus components can be arranged in any order.
 - b. The InsightHome must be one end of the network. Do not connect two end devices together to form a closed loop configuration.
- 2. Use a network terminator at the non-InsightHome end of the network. See Figure 7.
- Do not interconnect two separate Xanbus networks, meaning, do not daisy chain one Xanbus network with another.

Not intended to be used in two separate inverter systems.

NOTICE

EQUIPMENT DAMAGE

- Do not connect a Xanbus cable plug into the ethernet port on the InsightHome.
- Connect only to Xanbus ports and use a network terminator on the end device in the daisy chain.

Failure to follow these instructions can result in equipment damage.

Figure 7 Sample Xanbus network



NOTE: This Xanbus 1 network is for illustration purpose only.

1	InsightHome unit	4	Conext AGS (automatic generator start)	
2	XW Pro	5	Conext SCP (system control panel), discontinued	
3	MPPT 80 600	6	Network terminator	

Connecting the InsightHome to the Internet

Before connecting a computer and router to the InsightHome, make sure it meets the following prerequisites.

- Microsoft® Windows® 7 or later
- Mac OS® X 10.4.8. or later
- Google Chrome [™] 78.x or later
- Microsoft® Windows® Internet Explorer® 11.476 or later
- Safari® 5.x or later
- Firefox 110.0.1 (64-bit) or later
- JavaScript and cookies must be enabled in your web browser.
- Router the network router must be able to supply DHCP addresses automatically to connected devices. If your network router does not support automatic DHCP, refer to your network router's user guide or contact your system administrator.

To connect the InsightHome to a Computer on an Ethernet Network:

NOTICE

EQUIPMENT DAMAGE

- Do not connect an Ethernet cable from the InsightHome to the MODEM port on the network router.
- Do not connect an Ethernet cable plug into a Xanbus port on the InsightHome.

Failure to follow these instructions can result in equipment damage.

- 1. Make sure that the computer and network router are turned on and the InsightHome is not turned on. Make sure the network router selected has DHCP enabled.
- 2. Connect one end of an Ethernet cable to the computer's network port.
- 3. Connect the other end of the Ethernet cable to a vacant Ethernet/LAN port on the network router.
- 4. Connect one end of the Ethernet cable (supplied) to the LAN port on the network router.
- 5. At this stage, the network router should be on, but the LED showing port activity on the router will not show any indication.
- 6. Connect the other end of the Ethernet cable to the InsightHome.
- 7. At this stage, the Ethernet cable should be the only cable plugged into the InsightHome. See Figure 8.

Figure 8Ethernet connection (LAN)



1	Router/modem
2	Laptop
3	InsightHome unit
4	Ethernet cables

Turning On the InsightHome

Before turning on the InsightHome, you must connect it to a power source.





To turn on the InsightHome:

- 1. Select a power source to the InsightHome. You can choose either of the following:
 - Plug an (A) AC/DC power adapter into the AC wall outlet (see "Material List" on page 12 for specifications).
 - b. Connect the InsightHome to the Xanbus network (B) using Ethernet cables.

WARNING

UNINTENDED OPERATION HAZARD

Xanbus is a valid power source for the InsightHome, however, if you use Xanbus for the first time set-up the InsightHome clock will override the other Xanbus devices' clocks and could trigger unintentional time-based events, such as a generator starting.

Ensure that you set the InsightHome clock and time zone before performing any other commissioning steps, refer to Changing the Time on page 37 for instructions.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

- 2. Connect (A) or (B)'s connector to InsightHome's Power port for (A) or Xanbus port for (B), respectively.
- Connect (A)'s power plug to an AC wall outlet or (B)'s other Xanbus cable connector to a Xanbus port on a Xanbus device. Make sure the Xanbus device is turned on.
- 4. Observe the LED indicator and wait for the LED to light up solid green. The InsightHome is now turned on.
- 5. Proceed to "Logging in to InsightLocal" on page 29.

Turning Off the InsightHome

To turn off the InsightHome:

- Press the Power button according to the settings in Table 1 on page 13 or
- Use InsightLocal to shut down the unit and turn it off. Click Setup > Restart Gateway > Restart Gateway.

Figure 10Power button



Power Cycling

To power cycle the InsightHome:

- 1. Turn the InsightHome OFF.
 - a. Press and hold the Power button according to the settings in Table 1 on page 13 or use InsightLocal.
 - b. Remove the power connections to the InsightHome.

OR

- a. Use InsightLocal to shut down the unit and turn it off. Click Setup > Restart Gateway > Restart Gateway.
- 2. Wait ten seconds before the next step.
- 3. Ensure that there is no USB thumb drive inserted in the USB Host port.
- 4. Turn the InsightHome ON.
 - a. Plug and connect the InsightHome to a power source.
 - b. Press the Power button.

3 Getting Started

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Connecting via Wi-Fi Access Point (AP)

Wi-Fi Access Point allows you to connect your PC or tablet directly to the InsightHome. This is typically only used for fist-time configuration. **NOTE**: This procedure is not about connecting to a local area network (LAN) via Wi-Fi (for more information, see "Enabling the Wi-Fi Internet Connection" on the facing page).

It is possible to connect to InsightLocal via Wi-Fi Access Point. The following are the pre-requisites:

- Laptop with Microsoft® Windows® 7 or later, Mac OS® X 10.4.8. or later
- Wi-Fi setting for the laptop is enabled
- Web browser such as Google Chrome[™] 78.x or later, Microsoft[®] Windows[®] Internet Explorer[®] 11.476 or later, Safari[®] 5.x or later, Firefox 110.0.1 (64-bit) or later
- JavaScript and cookies must be enabled in your web browser.

Figure 11 Wi-Fi connection requirements



1	Laptop
2	InsightHome unit.
	Wi-Fi password label is on the back panel.

To connect:

- 1. Make sure the laptop and InsightHome are turned on.
- 2. Verify that Wi-Fi is enabled on the laptop.
- 3. Open your laptop's Wi-Fi settings, then look for and connect to the InsightHome SSID. For example, you may look for something similar to **InsightHome_fe808b** below.



- Enter the Wi-Fi Password when prompted.
 NOTE: The Wi-Fi password is printed on a label on the back panel of the InsightHome unit.
- 5. Proceed to "Logging in to InsightLocal" on page 29 (IP address: 192.168.100.1).

Enabling the Wi-Fi Internet Connection

When the InsightHome is connected to a wireless router, it is in Wi-Fi Station mode. This procedure describes how to connect to your home Wi-Fi network through the InsightHome desktop app. Before proceeding, verify that you are connected to the InsightHome via the Wi-Fi Access Point instead of a cabled Ethernet (LAN) connection (see "Connecting via Wi-Fi Access Point (AP)" on the previous page). **NOTE**: Wi-Fi Station cannot be used unless the LAN cable is disconnected.

To enable Wi-Fi Station:

- 1. Go to Setup > Network > Wi-Fi and Ethernet Settings.
- 2. Select your network. If you do not see your network, go to step 4.
- 3. Enter the network password. When you enter the correct password, the network name and icon will turn green and move to the top of the list, and a green checkmark will appear beside the name. **NOTE:** If you have an Ethernet cable plugged in, the checkmark will remain beside **Ethernet connection**, and you will not be able to successfully connect to the network you selected in step 2. Unplug the Ethernet cable, connect your device via the Wi-Fi Access Point, and repeat the steps above.



Ethernet connection	WIFI DHCP
Р5РТ56НТ93	Ip Address
	10.167.89.113
Gateway_b0f441_cluster	Subnet mask
Gateway_30438b	255.255.254.0
	Gateway
Gateway_b0ede5	10.167.84.1
P5PT56HT94	DNS Server
	Host name *
	cb-F21905000783
	APPLY CANCEL
	•

- 4. If you do not see your network, add the network manually:
 - a. Below the list of networks, click Add Network manually.

Figure 13 Adding a network manually

Gateway_b0ede5	
P5PT56HT94	
Add Network manually	

- b. Enter the SSID (network name).
- c. Enter the network password.
- d. Click Connect.

Web Security

When you access InsightHome you may see a warning stating that the web page is not trusted or the web page is not secure. You can elect to proceed anyway, if you are on a private local area network.

Configuring the InsightHome

To complete InsightHome setup, you must successfully complete the procedures in Installation on page 17. Make sure the InsightHome is connected, the Power LED is on, and the Event LED is off. Your Xanbus devices should still be in standby mode.

When you initially log in to InsightLocal, most of the setup information appears automatically with their default values. Some information must be changed (such as passwords), some information can be modified as needed, and some information can only be modified by a qualified IT professional.

The following items are part of the InsightHome configuration process:

Primary

- 1. Log in see "Logging in to InsightLocal" on the facing page
- 2. Change the password see "Changing the Password" on page 30
- 3. Set plant site information see "Site Settings" on page 37
- 4. Set the system time see "Changing the Time" on page 37

Optional/Occasional

- Configure general device settings see "Changing Connected Device Settings" on page 49
- 2. Upgrade the device firmware see "Upgrading Firmware" on page 40

Logging in to InsightLocal

NOTE: The gateway device's internal wireless access point uses the 192.168.100.x subnet. If the local area network uses the same subnet, a conflict will occur when trying to access the Internet.

- 1. If you have connected the InsightHome via Wi-Fi Access Point, go to the IP address https://192.168.100.1 to access the web user interface.
- 2. If you have connected the InsightHome via Ethernet or Wi-Fi Station, use the following steps:
 - a. Insert a blank USB drive into the InsightHomeUSB port. **NOTE**: Ensure there are no firmware upgrade files on this USB drive.
 - b. After the InsightHome beeps twice, remove the USB drive.
 - c. Insert the USB drive into your laptop USB port.
 - d. Copy the HTML file to your laptop.
 - e. Remove the USB drive from your laptop.
 - f. Open the HTML file and click the link to the IP address of the InsightHome.
- 3. Bookmark this address. **Important**: The web address is a locally and privately assigned (LAN) device address.
- Select your username. Select Admin.
 NOTE: A maximum of two Admin users can be logged in to one InsightHome at the same time. For more information, see "User Access Levels" on the next page.
- 5. Enter your Password. The initial password is Admin123.
- 6. **Important:** When prompted, it is required that you change the initial password immediately to protect the device from unauthorized users and to enable changes to device settings.

Passwords must:

- Be between 10-12 characters in length
- Contain at least one upper case character
- Contain at least one lower case character
- Contain at least one digit
- Contain at least one symbol

NOTE: To perform administrative functions such as a firmware update, set User Name to **Admin**. Settings are disabled until the initial password is changed.



- 7. Change the InsightHome SSID and network password:
 - a. Go to Setup > Network > Wifi Access Point Settings
 - b. (Optional) Replace the current Wi-Fi network name under the **SSID** field with an appropriate name. You are limited to 64 alphanumeric characters including symbols.
 - c. Replace the current password under the **Password** field with your own password.

Passwords must:

- Be between 10-12 characters in length
- Contain at least one upper case character
- Contain at least one lower case character
- Contain at least one digit
- Contain at least one symbol
- d. Click Apply to save the new password and/or SSID.



User Access Levels

The following types of user accounts are available:

Account type	Description	Accounts allowed/ InsightHome
Admin	Can configure the InsightHome and attached devices.	2
User	Can view the InsightHome dashboard and the status of attached devices, but cannot configure the InsightHome or attached devices.	5
Guest	Can only view the InsightHome dashboard.	1

Changing the Password

What to expect when logging in for the first time:

When logging in to InsightLocal for the first time, either as Admin or User or Guest, the system will automatically ask you to change the password from the factory default Admin123 or User123 or Guest123, respectively. **Important:** To protect your privacy, change all default passwords when you login for the first time.

Figure 14Message box to change password

Message
You are currently logged in with the default password. Change the password to ensure security of your plant data.
ОК

• Click **OK** and follow the instructions to change the password.

Passwords must:

- Be between 10-12 characters in length
- Contain at least one upper case character
- Contain at least one lower case character
- · Contain at least one digit
- Contain at least one symbol

Figure 15Password screen

Change password				
You are currently logged in with the default password. Change the password to ensure security of your plant data.				
User nan	e User			
Old passwo	d Password			
New passwo	d Password			
New passwo Confirm passwo	d Password			
	Apply Clear			
	Schneider Gelectric			

• You may have to log in again after changing the initial password.

To change the password after the initial log in:

Figure 16Change password setting

Dashboard	Devices	Events	Setup	About
Configuration	Change password			•
Network			User name	Select user 🗸
Manage Passwords			Old password	
Device Detection			New password	
Smart Energy Manager			Confirm password	X At least 10 characters
BMS Setup				At least one small character At least one small character At least one capital letter At least one number At least one special character
				Apply Cancel

- 1. Click Setup > Manage Passwords > Change Password.
- 2. Select the **User name** type. **Note:** Admin-level can change all passwords. Userlevel can change User and Guest passwords. Guest-level cannot change any passwords.
 - Admin
 - User
 - Guest
- 3. Enter the Old password.
- 4. Enter the New password.
- 5. Enter the **Confirm password**.
- 6. Click Apply. Your settings will be immediately applied.

InsightCloud

Create an InsightCloud Account

- 1. Open a Google Chrome[™] web browser (must be version 78.x or later).¹
- 2. Go to www.insightcloud.se.com.
- 3. Click **Sign Up**, complete the form, and then click **Sign Up**. *A confirmation e-mail is sent to the e-mail address you entered.*

¹Other web browers are not supported. Due to cyber security reasons, use only the recommended Chrome browser versions.

	Email
	Password 🎻
InsightCloud	Login 🖏
AppStore	Foroot password? Damo Signup

- 4. To complete the registration, go to the confirmation e-mail, and then click **Confirm my account**.
- 5. From the login portal, enter your credentials, and then click Log In.

IMPORTANT: Do not share your login credentials.

Verify the Cloud Connection (InsightLocal)

To use InsightCloud for remote monitoring and configuration, you must configure the Cloud connection for your InsightHome, using InsightLocal. The **Cloud settings** screen can be used to enable and check your Cloud connectivity. The Cloud is enabled by default.

- 1. Log in to InsightLocal.
- Verify that the date, time and time zone are correct in InsightLocal (go to Setup > Configuration > Time setup).
- 3. If you are setting up the InsightHome on your home network, a proxy is likely not required. However, if you are using a corporate, or other externally managed network, then proxy settings may be required. To use proxy settings:
 - Go to Setup > Network > Proxy settings, and enter the proxy URL and port number.
 - b. If required, enter the proxy username and password.
 - c. Set "Network Proxy enable" to Enable. Click Apply. Once the InsightHome is connected to the Cloud, the "Cloud connection status" indicator will change from red to green, and the "Number of transmitted messages" will start to increase. You can also check the "Last data transfer time from cloud" to check the last time your InsightHome sent a message to the Cloud. This information can be used to troubleshoot connectivity issues. If the status indicator is not green, contact Schneider Electric.



Create a New Site (InsightCloud)

- 1. Login to InsightCloud, and fill in all required fields in the New Site Creation dialog.
- 2. Click Create.
- 3. Go to **Configuration > Site Settings** and select the new site from the drop-down menu at the top of the page.
- 4. From the right pane, click **Devices**.

HOME	MULTI SITE	PERFORMANCE	REPORTING	EVENTS	CONFIGURATION
site3	÷				Create Site Duplicate Delete
DEVICE LIST Site			DOCUMENTS		
MPPT Disconn		MAC Address : 🕖			58:74:62:66:25:E9
Inverter Charg Battery	er >				
User Interface Charge Contro		Product Serial Number : 🧃		eog0006	
				Up	Jodate

5. In the *MAC Address* field, enter the MAC address from the rating label on your InsightHome.

OR

You can go to the *About* section of InsightLocal and copy the MAC address and serial number of InsightHome.

- 6. In the *Product Serial Number* field, enter the serial number of InsightHome. The serial number can be found on the product label. Enter the serial number exactly as it appears on the product.
- 7. Click Update.

NOTE: Site administrators can add new users to the site from **Configuration** > **User rights** > **Add a user**. These new users can use an exisiting InsightCloud account.

User role	Change device settings	View device settings	Add other users	Delete other users	View Gateway URN / serial number	Upload documents
Admin	х	х	х	х	х	Х
Solar installer	x	x	x	_	x	х
Technical end user	_	x	x	_	_	-
Basic end user	_	х	х	_	х	х

Table 2 InsightCloud user rights

InsightMobile

The InsightMobile app allows you to monitor your connected devices from your iOS or Android mobile device. **NOTE:** Some devices can only be configured through XW Pro.

Prerequisites

Before installing InsightMobile, you must have the following:

- iOS 12 or above (iPhone 6 or newer models) or Android 9 or above
- Wi-Fi connection

Downloading the App and Connecting to InsightMobile

- 1. From your mobile device, download **InsightMobile SE** from the App Store® (iOS) or Google Play[™] store (Android).
- 2. Tap the app icon to open it.
- 3. Tap an option from the Choose the mode of connection screen.



- 4. Tap PROCEED.
- 5. Tap to select and connect to your device.
- On successful connection, the Login screen will be displayed.
 Enter the login details and click Login. NOTE: Use the same login as InsightCloud.
 See InsightCloud on page 32.
| Insight Mobil | е |
|------------------------|------------------------|
| | |
| Email ID | |
| Password | Ŕ |
| Login | |
| SignUp | |
| Forgot your password ? | Demo mode |
| Life Is On | Schneider
GElectric |

7. On successful login, the **Dashboard** screen will be shown.

Disconnecting from InsightMobile

To logout and disconnect fromInsightMobile:

- 1. Tap Settings.
- 2. Tap \bigcirc , and then tap **OK**.

Changing InsightHome Settings

The procedures for configuring the other InsightHome settings are described in the following sections.

To change InsightHome settings:

- In the main menu bar, click Setup > Configuration.
 The Configuration settings appear in the main display area.
- 2. Click any of the following settings.
 - Site setup see Site Settings on page 37
 - Time setup see Changing the Time on page 37
 - Import & export settings see Importing and Exporting Settings on page 38
 - Units see Changing Units of Measurement on page 38
 - Modbus settings see Connecting and Configuring Modbus Devices on page 46
 - Restart InsightHome see Restarting the InsightHome on page 39
 - Upgrade Firmware see Upgrading Firmware on page 40
- 3. With only a few exceptions, you may save a setting by clicking **Apply** or ignore changes by clicking **Cancel**.

That portion of the window expands to display the change options for that setting. The size and content of the expanded window varies depending on the setting type.

Site Settings

It is recommended to name the site to distinguish it from other installations in your power system.

Figure 17 Site Settings screen

Dashboard	Devices	Events	Setup	Abou	t.		
Configuration	Site Settings						~
Network			Fri	endly name	InsightHome		
Manage Passwords			Installed AC ca		6		
Device Detection			In	stalled year	2020		
Smart Energy Manager						Apply	Cancel
BMS Setup							
	Time setup						>
	Import & export set	tings					>

To enter site information:

- 1. Click Setup > Configuration > Site Settings.
- 2. Enter a **Friendly name**. Choose a name that can easily identify the plant site to your customers.
- 3. Enter the Installed AC capacity (kW).
- 4. Enter the **Installed year**.
- 5. Click Apply. Your settings will be immediately applied.

Changing the Time

In order for the Cloud interface and time-based inverter functions to work properly, you must set the correct time and time zone. You can choose to use the network time for your system.

Figure 18 Time setup screen

Dashboard	Devices	Events	Setup 4	About	
Configuration	Plant setup				>
Network	Time setup				
Manage Passwords			Time zone	(-08:00) Pacific Time (US, Canada, Tijuana)	•
Device Detection			Date & time		
				Apply	Cancel

To change the InsightHome time:

- 1. Click Setup > Configuration > Time setup.
- 2. Select the **Time zone**. This time setting overrides settings on other devices in the system.

- 3. Select the **Date & time**.
- 4. Click Apply. Your settings will be immediately applied.

Importing and Exporting Settings

This command setting allows you to either export the configuration of this InsightHome to another InsightHome unit or import the configuration of another InsightHome to supersede this InsightHome unit. **NOTE:** This command doesn't import nor export settings for Xanbus devices.

Figure 19Import & export setup screen

Dashboard	Devices	Events	Setup	About	
Configuration	Plant setup				~
Network	Time setup				~
Manage Passwords	Import & export s	ettings			~
		Export settin	gs from this Conext Gatew	Import settings to this Conext Gateway	
			Download	Upload	

To export settings:

- In the main menu bar, click Setup > Configuration.
 The Configuration settings appear in the main display area.
- 2. Click Import & export settings.
 - a. Click **Download**. The compressed configuration file *usersettings.zip* will be automatically saved to the **Downloads** folder of the browser.
 - b. If necessary, you may copy this file to an external drive and later import it to a different InsightHome device.

To import settings:

- In the main menu bar, click Setup > Configuration.
 The Configuration settings appear in the main display area.
- 2. Click Import & export settings.
 - a. Click Upload.
 - b. Locate the compressed configuration file *usersettings.zip* from a local directory or an external drive.
 - c. Click Restart now to finish the importing of the configuration file.

Changing Units of Measurement

This setting allows you to change the standard unit of measurement used in solar irradiance, temperature, and wind speed.

Figure 20Units setup screen

Dashboard	Devices	Events	Setup	About		
Configuration	Plant setup					~
Network	Time setup					~
Manage Passwords	Import & export s	ettings				~
	Units					*
			Irradiance	W/m ²		
			Temperature	°C	*	
			Wind speed	m/s		
					Apply	Cancel

To change units:

- In the main menu bar, click Setup > Configuration.
 The Configuration settings appear in the main display area.
- 2. Click **Unit**. Currently, only **Temperature** can be changed to either celsius or farenheit.
- Save the settings by clicking Apply .
 Alternatively, ignore the changes by clicking Cancel.

Restarting the InsightHome

You are allowed to restart, reset the configuration, or return the InsightHome to all of the original factory settings remotely from InsightLocal or by pressing and holding the Power button according to the settings in Table 1 on page 13.

Figure 21 Restart InsightHome screen

Dashboard	Devices	Events	Setup At	oout	
Configuration	Plant setup				>
Network	Time setup				>
Manage Passwords	Import & export setti	ngs			>
Device Detection	Units				>
	Modbus settings				>
	Restart Gateway				~
			Shutdown Gateway		
			Restart Gateway		
			Reset configuration	Resets the Gateway settings including network configuration, and plant setup. Does not affect the configuration of attached devices.	
			Reset to factory settings	Forgets all detected devices, removes data logs, and resets configuration.	

Select an option:

- 1. Click Setup > Configuration > Restart InsightHome.
- 2. Click any of the action buttons depending on the kind of reset you want to perform.
 - Restart InsightHome will execute a soft restart of the InsightHome unit.
 - Reset configuration will execute a reset of InsightHome settings, including network configuration, and plant setup. This action does not affect the configuration of connected devices.
 - Reset to factory settings will execute a complete return to factory settings including forgetting all detected devices, removing data logs, removing event logs, and resetting all configuration.
- 3. Follow the succeeding instructions.

Upgrading Firmware

You can perform firmware upgrades for your InsightHome and Xanbus-enabled devices when they are available for download.

There are three upgrade procedures, namely:

- "Installing InsightHome Upgrades From a USB Drive" below
- "Installing InsightHome Upgrades Remotely" on the facing page
- "Upgrading Other Device Firmware" on page 42

Installing InsightHome Upgrades From a USB Drive

Follow the procedure below to change the InsightHome firmware to an updated version.

To update the firmware:

- 1. Using a laptop computer, format a USB drive and open a web browser.
- 2. Go to http://se.com and download the latest InsightHome firmware version (contained in a ZIP file):
 - a. Navigate to the InsightHome product page.
 - b. Click **DOWNLOADS > Firmware**.
 - c. Pick the firmware version (V) with a higher number and also a higher build number (BN). The ZIP file is approximately 49 MB.
- 3. Extract the .epkg file from the ZIP file into the root directory of the USB drive (supplied with the unit).
- 4. To initiate the update to the firmware:
 - a. Insert the USB drive into the port on the InsightHome.
 - b. The InsightHome will beep once and the LED will blink while the the firmware is copied to the InsightHome and the upgrade is performed. This can take 5– 10 minutes.

c. If the update takes more than 10 minutes, make sure that the .epkg file is copied correctly into the root directory.

Important: Once the USB drive is inserted, Do not turn off the InsightHome.

- 5. Once the firmware upgrade is done, the InsightHome emits two beeps. and the LED indicator stops blinking.
- 6. Remove the USB drive.
- 7. Manually reboot the InsightHome using the power switch to complete the firmware upgrade process.

Installing InsightHome Upgrades Remotely

To install an upgrade remotely:

 From the InsightLocal home page, go to Setup > Configuration > Firmware Upgrade.

Dashboard	Devices	Events	Setup	About		
Configuration	Site Settings					>
Network	Time setup					>
Manage Passwords	Import & export s	settings				>
Device Detection	Units					>
Smart Energy Manager	Modbus settings					>
BMS Setup	Restart Gateway					>
	Firmware Upgrad	le				~
			Installed	firmware		
				Version v1.	15DEV	
			Bu	ld number 714	4	
			Manu	al update	Upload package	
				Get	et package	
	Region Settings					>

- 2. Download the firmware package.
 - a. Click Get package. This will take you to the InsightHome product webpage.
 - b. From the product webpage, go to **DOWNLOADS > Firmware**.
 - c. Search for the latest firmware package from the list and click it to begin downloading.
 - d. Unzip the firmware package.
 - e. Save the .epkg file to a local directory.
- 3. Go back to InsightLocal.
- 4. Click Upload package.
- 5. Search and select the firmware package (.epkg file) you saved in a local directory from the InsightHome product webpage.
- 6. Click Open from the Windows dialog. The upgrade begins automatically.

- 7. As the firmware package is transferred to the InsightHome, progress is indicated in percentage, and a message screen indicates when the file transfer has been completed successfully.
- 8. When prompted, restart the InsightHome. See Restarting the InsightHome on page 39.

Upgrading Other Device Firmware

It is possible to upgrade a device's firmware using InsightLocal or InsightCloud.

IMPORTANT: If upgrading inverter firmware, the inverter will be out of operation during the upgrade. If installed, use the external bypass (transfer) switch to power home loads from the grid during the firmware upgrade.

NOTICE

RISK OF EQUIPMENT DAMAGE

- Consult the device's Owner's Guide when changing the device's settings.
- Make sure the device connected on the Xanbus or Modbus network is in Standby mode before changing settings.
- Do not change any settings unless you are familiar with the device.

Failure to follow these instructions can result in equipment damage.

Figure 22 Firmware tab

Devices	s Eve	nts	Setup	About	
Inverter/Cha	irger: 0 0 Change Sel	ection			
Status	Performance	Events	Configuration	Diagnostics	Firmware
Firmw	vare Version		1.04.00 PI	ease select the firmw	vare, ending with the file extension .xf0 or .:
Build	Version		2	Upgrade	Upgrade All XWs
	Inverter/Cha Status Firmv	Inverter/Charger: 0.0 Change Sel	Inverter/Charger: 0 0 Change Selection Status Performance Events Firmware Version	Inverter/Charger: 0 0 Change Selection Status Performance Events Configuration Firmware Version 1.04.00 PI	Inverter/Charger: 0 0 Change Selection Status Performance Events Configuration Diagnostics Firmware Version 1.04.00 Please select the firmw

To obtain the firmware package:

- 1. From a laptop computer, open a web browser.
- 2. Go to http://se.com and download the latest version of the correct device firmware (contained in a ZIP file):
 - a. Navigate to the appropriate product page.
 - b. Click DOWNLOADS > Firmware > FWYYYYMMDD-Product NameVX.XX BNXXXX (Product Number).ZIP.
 - c. Pick the firmware version (V) with a higher number and also a higher build number (BN). The ZIP file is approximately 6 MB.
- 3. Extract the .xf0 file from the ZIP file into a folder on the local drive.

To upgrade device firmware:

- 1. In the main menu bar, click **Devices**.
- 2. Put the device in to Standby mode first (if the device is an inverter, this will stop power production).
 - a. Click the device you want to put in to Standby mode.
 - b. Click **Configuration > Controls**.
 - Note that **Controls** may be named differently, such as **AGS Control**.
 - c. Search for the control setting **Operating Mode**.
 - d. Select Standby.
 - e. Click Apply.
- 3. Click the **Firmware** tab.
- 4. Click Upgrade. To upgrade all similar devices in the network, click Upgrade All.
- 5. Follow the step-by-step upgrade instructions.
- 6. Use the **Operating Mode** menu to put the device back into normal operating mode.

4 Configuring Devices

What's in This Chapter?

Connecting and Configuring Modbus Devices	46
Modbus TCP Settings	47
Removing a Modbus Device	47
Changing Connected Device Settings	49
Refresh Data, Basic, and Advanced Buttons	50
Device Associations	51
Enabling the IEEE 2030.5 Protocol	51
Configuring the Grid Code Region	52

Connecting and Configuring Modbus Devices

NOTE: For Modbus map information, contact Schneider Electric.

Connect Modbus wires to pins 7, 9, and 11 (see "Physical Features" on page 13), and then complete the following steps using InsightLocal:

- 1. Go to Setup > Configuration > Modbus Settings.
- 2. Complete the Serial Port setup and then click Apply.

Dashboard	Devices	Events	Setup	About				
Configuration	Plant setup							>
Network	Time setup							>
Manage Passwords	Import & export se	rttings						>
Device Detection	Units							>
Smart Energy Manager	Modbus settings							
				Serial Port A				
				Baud rate	9600	*		
				Parity	none	*		
				Stop bits	1	٣		
							Apply	Cancel
	Restart Gateway							>

- 3. Go to Home > Setup > Device Detection.
- 4. Under Range, enter a Modbus address range and then click Detect.

Dashboard	Devices	Events	Setup	About		
Configuration	Detect devices					•
Network		Range				
Manage Passwords	RS-485-1	to				Detect
Device Detection						Detect
Smart Energy Manager						

- 5. Go to Devices and then click the device image to select the device.
- Go to Configuration and configure the device settings under *Basic* and *Advanced*. Each device type will have different settings to configure. Refer to the device's Installation and Operation manuals for configuration information. Repeat steps 5 and 6 for each device.

Dashboard	Devices	Events	Setup	About
Device Overview	Inverter: 0.0 Change Se	lection		
-	Status Perform	ance Configurati	Diagnostics	
Inverters		(Im)		
Inverter/Chargers				C Basic Advanced
Charge Controllers				
Other Devices				
Meters				

Modbus TCP Settings

Modbus TCP allows an external controller to communicate with the InsightHome and perform monitoring and control activities.

Important: The Modbus TCP protocol is not secure. **DO NOT** route this protocol over an untrusted public or private network. Ensure adequate cybersecurity protections are enforced on your network. Maintain appropriate firewalls and physical access restrictions.

To enable Modbus TCP:

- 1. Go to Setup > Network > Modbus TCP settings.
- 2. Slide the toggle switch to the right.
- 3. Click Apply.

Figure 23 Modbus TCP settings

Dashboard	Devices	Events	Setup	About		
Configuration	Remote diagnost	ics				
Network	Cloud settings					
Manage Passwords	Wifi Access Poin	t settings				
Device Detection	IEEE 2030.5 setti	ngs				
	Modbus TCP set	ings				
			Modbus TCP			
				AP	PLY CANCEL	
	Network settings					

Removing a Modbus Device

To remove a Modbus device:

- 1. Disconnect the device from the bus.
- 2. Log in to InsightLocal.
- 3. Select the **Devices** tab and then navigate to the Modbus device that you want to remove.

4. Verify that the device is "Offline" and then click on the device.

PM8XX 0	Offlin
Device Association	
Total Real Power	
Voltage Average	
Voltage Phase A	180634 мин
Voltage Phase B	AMPE VOLTE PVR
Voltage Phase C	_
Current Average	_
Current Phase A	_
Current Phase B	_
Current Phase C	_
Frequency	

5. Click Delete Device.

Device	es Events	Setup	About		
Meter: PM	8XX 0 Change Selection				
Diagnost	ics				
Historic	al Events				PM8XX 0 Offline
	Time	Id	Name	Description	
					1201 - 2010 127 - 4 - 15 180 - 18
					Delete Device

6. In the *Delete Device* dialog, click **Delete**.



7. Restart your InsightHome (recommended).

Changing Connected Device Settings

Before making any changes, familiarize yourself thoroughly with the effects of changing the settings of the device.

NOTICE

RISK OF EQUIPMENT DAMAGE

- Consult the device's Owner's Guide when changing the device's settings.
- Make sure the device connected on the Xanbus or Modbus network is in Standby mode before changing settings.
- Do not change any settings unless you are familiar with the device.

Failure to follow these instructions can result in equipment damage.

Figure 24 Device Overview screen - Icons display

Dashboard	Devices	Events	Setup About	t	
Device Overview	7 devices Display Lis	t Icons			
Inverters					
Inverter/Chargers	XW [20099]	Online	MPPT [1328371]	Online	HVMPPT [838217] Online
Charge Controllers	Operating Operating Mode		Operating Operating Mode		Operating Operating 0 Mode
Other Devices	Inverter Invert Status		Charger Not Status Charging		Charger Float Status
	Charger Qualifying Status AC		Charge Primary Mode Status		Charge Secondary Mode Status
	Inverter Split Phase Mode Master		DC Input Solar Array 1 Association		DC Input Solar Array 1 Association (PV)
	Load AC 93W Power		(PV) Input DC 0W		Input DC 0W
	Load AC 244.32V Voltage		Power Input DC 0.06V		Power Input DC 303.33V
	Load AC 60Hz Frequency		Voltage DC Output House		Voltage DC Output House
	Grid AC 0W Input Power		Association Battery Bank (Battery) 1		Association Battery Bank (Battery) 1
	Grid AC 0V		Output DC 0W Power		Output DC 1W Power
	Voltage Grid AC 0Hz Frequency		Output DC 28.08V Voltage		Output DC 28.19V Voltage
	Generator OW AC Power				
	Generator 0V AC Voltage				
	Generator 0Hz				
	AC Frequency				
	Battery 225W Power				
	BATTMON [2595] DC House Association Battery Bank (Battery) 1 Battery State 100% of Charge 100% Battery 28.19V Voltage 1.68A Current Battery Battery 30degC Temperature 1.00%	86Dnline			

Figure 25 Device Overview screen - List display

Dashboard	Devices	Events	Setup	About	
Device Overview	7 devices Displa	List Icons			
nverters	Device type	Device Id	Status		
nverter/Chargers	XR	20099	Online		
	BATTMON	259586	Online		
Charge Controllers	HVMPPT	838217	Online		
Other Devices	MPPT	1328371	Online		

To change a device setting:

- 1. In the main menu bar, click **Devices**. See Figure 24 for a sample of the default display of all connected devices.
- 2. If you want a shorter list of devices, switch to a List display. See Figure 25.
- 3. Put the device in to Standby mode first.
 - a. Click a device you want to put in to Standby mode.
 - b. Click Configuration > Controls.
 Note that Controls may be called differently such as AGS Control.
 - c. Search for the control setting Operating Mode.
 - d. Select Standby.
 - e. Click Apply.

Refresh Data, Basic, and Advanced Buttons

The **Refresh Data**, **Basic**, and **Advanced** buttons are located in the top right of each device configuration page.



Qualified personnel are able to access additional parameters for devices under the **Advanced** view.

The **Refresh Data** button (green arrow) resets the Insight configuration to match the current configuration of the physical device, such as an inverter. For example, if you have made edits to the configuration in InsightLocal, but not yet applied them, you can use the **Refresh Data** button to undo all the changes and reset InsightLocal to the inverter's configuration.

- 4. Click Configuration
- 5. Choose either **Basic** or **Advanced** settings.
- 6. Click a device setting category. For example, **Inverter Settings** in the case of an inverter device.
- 7. Change a specific setting by selecting from a drop down list, toggling a switch, or entering a different value.

- 8. Click Apply to save the changes.
- 9. Use the **Operating Mode** menu to put the device back into normal operating mode.

Device Associations

This procedure describes how to set device associations from InsightLocal.

To associate devices:

- 1. In the main menu bar, click **Devices** and then select the device type from the left menu.
- 2. Select a device.
- 3. On the device page, select Configuration and then click Advanced.
- 4. Click Associations to expand the section.

AC1 Association (Grid) AC2 Association (Generator)	Grid 1	AC Output Association (Loads)	AC Load 1
	None	Battery Association	House Battery Bank 1 🔻

- 5. Select the correct association(s) from the drop-down menu(s).
- 6. Click **Apply**.
- 7. To verify the associations, select the **Status** tab and confirm that all associations are correct.

	Inverter/Charger: XW68	348-21 0 Change Select	ion						
Device Overview									
	Status Perform	mance Events	Configuration	Diagnostics	Firmware Grid Codes				
								XW6848-21 0	
Other Devices	Device Operating S	State	Grid Tie				Basic Advanced	Online	
uler Devices									
leters									
	Grid Tie Operating	State E	oport (Sell)			Active Grid Support Function	3		
							Volt-Watt Over Volt		
					Freq-Watt Ove	r Freq Freq-Watt Under Freq	Volt-Walt Over Volt	-	
					Voll-Watt Unde	er Volt Volt-Var	Watt-PowerFactor	• =	
								-	
					Watt-Var	Fixed PowerFactor	Fixed var		
	D Power Conv								
	\odot	ersion						FGA	865-6848-
	AC Active Power			6012 W	AC Voltage		241.7 V		
	AC Reactive Powe AC Apparent Powe			-6 var 6012 VA	AC L1 Voltage AC Active Current		120.9 V 0 A	Device name	XW6848-
	AC Apparent Power AC Power Factor	81		0.17	AC Reactive Current		0.4		
	AC Frequency			60 Hz	AC Apparent Current		49.6 A	Serial number	00001AB4EC
								Unique Identifier	13712
	DC Voltage			57.2 V	DC Current		-126.8 A		
	DC Power			-7248 W	Battery Control Mode		Voltage Control	Bus ID	
	AC1 (Grid)								
	AC1 Active Power			5929 W	AC1 Active Current		0 A	Bus Address	
	AC1 Reactive Pow			-8 Var	AC1 Reactive Current		0.4	Build Number	1.14.00bn90
	AC1 Apparent Pov	ver		5929 VA	AC1 Apparent Current		49 A	Build Norriber	1.14.000150
	AC1 Power Factor			0.2	AC1 L1 Voltage		120.7 V		
	AC1 Frequency			60 Hz	AC1 L2 Voltage		121 V		
	AC1 Voltage			241.7 V	AC1 L1 Active Current		0 A		
	AC1 Qualification			Qualified	AC1 L2 Active Current		0 A		
	AC2 (Gener	ator)							
	AC2 Active Power			0 W	AC2 Active Current		0 A		
	AC2 Reactive Pow			0 Var	AC2 Reactive Current		0 A		
	100 1000000								

Enabling the IEEE 2030.5 Protocol

The XW Pro is IEEE 2030.5-certified when connected to the InsightHome and External Monitoring & Control is done by client-server communication type.

- 1. Place any connected devices, XW Pro for example, into Standby mode.
- 2. Log in to the gateway device.
- 3. Click Setup > Network > IEEE 2030.5 settings.

4. To enable IEEE 2030.5, turn on the IEEE 2030.5 toggle and then click Apply.

InsightLocal					2023/02/27 20:19 ①Admin Disclaimer I	.ogout Life Is ⊕n	Schneider
Dashboard	Devices	Events	Setup	About			
Configuration	Remote diagnosti	cs					>
Network	Cloud settings						>
Manage Passwords	Proxy settings						>
Device Detection	Wi-Fi Access Poin	t settings					>
Smart Energy Manager	IEEE 2030.5 settin	gs					~
BMS Setup							
			IEEE 2030.5 🛑				
			Remote control				
			Local control				
			IP Address 10.172.19.218				
			Port 8443				

For more information, see *XW Pro Inverter/Charger Owner's Guide* (part number: depends on configuration - see http://se.com

Configuring the Grid Code Region

Note: This procedure is for authorized personnel only. Changing this setting will modify the **Region Settings** for all devices in the system.

To configure the grid code region:

- 1. Log in to InsightLocal.
- 2. Go to **Setup > Region Settings**, and type your password. To obtain the password, contact customer service.

Dashboard	Devices	Events	Setup	Extensions	
Configuration	Plant setup				>
Network	Time setup				>
Manage Passwords	Import & export	settings			>
Device Detection	Units				>
Smart Energy Manager					
	Modbus settings	\$			>
	Restart Gateway				>
	Install Package				>
	Region Settings	>			~
	Warnir	ng! Setting the region fr	om here will reset all the	e inverters to their default region settings.	
		Password		ОК	

- 3. Press OK.
- 4. Select a region from the Select Region drop-down menu.

legion Settings			
Select Region:			
Select Region:	California Rule No.21-2018 •		
	Custom		
Current Status:	California Rule No.21-2018		
State	PREPA-2017 HECO Rule No.14 - 2018		
Current Region	IEEE 1547-2003 IEEE 1547-2003 50Hz		
	HECO Rule No.14 - 2018 Molokai/Lanai		
		Apply Cancel	

5. Click Apply.

5 Monitoring

What's in This Chapter?

Monitoring the Site

You can view the current state of the site by viewing the InsightHome dashboard.

With the **Dashboard**, you can view power flow between the connected devices, battery information, and energy production and consumption.

Figure 26Dashboard

Note: Your dashboard may look different from the one shown above.

1	Power flow tab – shows an interactive and graphical view of the power plant with its different connected devices.
2	Battery summary tab – shows a historical line graph of four battery metrics such as current, volts, temperature, and state-of-charge (SOC). It shows one battery at a time.
3	Battery comparison tab – shows a historical and comparative line graph of the four battery metrics against all the different batteries.
4	Energy tab – shows a chronological summary of energy that is produced by three sources; solar, grid, and battery. Also shows a chronological summary of energy that is output to four energy consumers; load, grid, battery, and generator.
5	Energy comparison tab – shows a comparative graph between energy input and output.
6	Main display board – shows the different graphical elements of the power plant, the devices, battery, and energy information.

To view the dashboard:

- 1. After successfully logging in, the very first view to show on the main display board is the **Dashboard Power Flow**.
- 2. Click each of the tabs on the left to switch to different views.

6 Troubleshooting

What's in This Chapter?

Events

The events detected and monitored by XW Pro are categorized into Warnings and detected Faults. They can be found from the main menu, under **Events**. When a fault or warning message appears on the XW Pro device **Status** page, you can acknowledge the message to clear the screen. To acknowledge a fault or warning message, press the **Enter** key. This action does not clear the fault or warning condition - consult the owner's manual for each device for a list of Warnings and troubleshooting steps..

lcon	Туре	Description
	Warning	See the owner's manual for each device for a list of Warnings and troubleshooting steps.
0	Fault	See the owner's manual for each device for a list of Faults and troubleshooting steps.
0	Information	Information, such as login records and file uploads, are stored under the Logs tab.

Historical Events: When devices detect an event that usually resolves by itself, it is still reported to XW Pro and logged under **Historical** (see Figure 28). However, events that happen repeatedly escalate to a fault or sometimes the device detects a fault, such as a ground fault. When a fault is detected, it is also reported to XW Pro and logged.

Active Events: If service intervention is required, the event is logged under **Active** (see Figure 27), and remains there until service is performed. If user intervention is required, such as remotely resetting a device, the event is also logged under **Active** and remains there until the user is able to perform the necessary action.

Figure 27 Active events

	Event Type 🤝	Time 💌	Device Type 👻	Device Id	Id 👻	Name 🔍	Description
Historical	0	2018/08/25 08:47:09 +0100	HVMPPT	838217	82	Network Power Supply Fault	The Network Power Supply has failed. Solution:
	•	Not Available	GT	835209	54	APS Off	PV Voltage is zero, and grid voltage is within limits (240V AC). Solution:

Figure 28Historical events

Dashboard	Devices	Events	Setup	About			
Active	Event Type 👻	Time 🔻	Device Type 👻	Device Id	Id 💌	Name 👻	Description
Historical	•	2018/10/30 00:54:39 +0000	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hol Solution:
	•	2018/10/25 07:14:23 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too ho Solution:
	0	2018/10/15 21:34:48 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too ho Solution:
	0	2018/10/15 08:05:59 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hol Solution:
	0	2018/10/03 02:03:53 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hol Solution:
	0	2018/10/02 19:14:09 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hol Solution:
	•	2018/10/01 14:57:11 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hol Solution:
	0	2018/09/28 18:48:48 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too ho Solution:
	0	2018/09/28 03:46:12 +0100	MPPT	1328371	71	DC Over-current shutdown	Cause: DC output current is too high. Solution:
	0	2018/09/28 03:46:12 +0100	HVMPPT	838217	71	DC Over-current shutdown	Cause: DC output current is too high. Solution:

To view Events:

- In the main menu bar, click Events.
 The Active events are displayed first in the main display board.
- Click **Historical** to view events that have been logged and/or resolved.

 To download a copy of the events, click the CSV icon on the lower right hand corner of the main display board.

7 Specifications

What's in This Chapter?

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Electrical Specifications

NOTE: Specifications subject to change without prior notice.

Power Consumption	2 W average / 10 W peak
AC/DC adapter	Input: 100-240 V AC, 50-60 Hz, 0.48 A, Output: 12 V DC, 1.6 A, 5.5 mm outer, 2.1 mm center- positive jack. NOTE: Required when used with the Conext SW.
Xanbus	When connected to XW Pro, XW+, Conext SW, or MPPT providing network power
Operation Frequency	2412–2472 MHz (Europe) 2414–2462 MHz (N. America)
Max. radio frequency power transmitted	17.06 dBm (E.I.R.P., Declaration for EU)

Physical Specifications

NOTE: Specifications subject to change without prior notice.

Weight (device only)	220 g (0.5 lb)
Dimensions (device only) (W × H × D)	132 x 75 x 41 mm (5.2 × 3 × 1.6 inches)
Shipping package dimensions	158 × 158 × 188 mm (6.2 × 6.2 × 7.4 inches)
Shipping package weight	480 g (1.1 lb)
Housing/Mounting system	ABS Plastic / 35-mm DIN rail clip
IP rating / Mounting Location	IP 20, NEMA 1, Indoor only
Status Display	1 x LED
Temperature	Operating: 32 to 113 °F (0 to 45 °C) Storage: -40 to 185 °F (-40 to 85 °C) Maximum case temperature: 140 °F (60 °C)
Humidity	Operating: < 95%, non-condensing Storage: < 95%

Features

NOTE: Specifications subject to change without prior notice.

Web-based user interface	Google Chrome 78.x or later, Microsoft Windows
	Internet Explorer 11.476 or later, Safari 5.x or later
	Microsoft Windows 7 or later, Mac OS X 10.4.8. or later,
	Firefox 110.0.1 (64-bit) or later
Remote firmware upgrades	Yes (InsightHome and connected Xanbus devices)

Regulatory

NOTE: Specifications subject to change without prior notice.

Safety	EN 62368-1				
	EN61000-6-3	EN 55032	EN 62311		
EMC emissions	EN 300 328	EN 301 489-1,	-17		
	FCC part 15B	ICES-003			
EMC immunity	EN61000-6-1	EN 55035			
	EN 301 489-1, -17				
Substances / environmental	RoHS				
FCC ID	Contains 2AODL-CONEXTGTWY				
IC ID	Contains 24209-CONEXTGTWY				
Part number	865-0330				

FCC Regulatory Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Compliance

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

Trade Name/Model Number: InsightHome Part No.: 865-0330

Responsible Party – U.S. Contact Information

Schneider Electric 70 Mechanic Street Foxborough, Massachusetts 02035 United States

http://se.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

ISED Regulatory Compliance

This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- 1. This device may not cause interference.
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1. L'appareil ne doit pas produire de brouillage;
- 2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet émetteur ne doit pas être situé ou fonctionner conjointement avec une autre antenne ou un autre émetteur. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

CAN ICES-3 (B)/NMB-3(B)

Simplified EU Declaration of Conformity

Hereby, Schneider Electric declares that the radio equipment type 865-0329 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://se.com

Schneider Electric Products that Work with the InsightHome

- XW Pro Inverter / Charger:
 - XW Pro 8548 Product No. 865-8548-55
 - XW Pro 6848 NA Product No. 865-6848-21
- Conext XW+ Inverter / Chargers:
 - Conext XW+ 7048 E Product No. 865-7048-61
 - Conext XW+ 8548 E Product No. 865-8548-61
 - Conext XW+ 5548 NA Product No. 865-5548-01
 - Conext XW+ 6848 NA Product No. 865-6848-01
- Conext SW Inverter / Chargers:
 - SW 2524 120/240 Product No. 865-2524
 - SW 4024 120/240 Product No. 865-4024
 - SW 2524 230/240 Product No. 865-2524-61
 - SW 4024 230/240 Product No. 865-4024-61
- CL Inverters:
 - CL 30 Product No. PVSCL30E
 - CL 33 Product No. PVSCL33E
 - CL 50 Product No. PVSCL50E

- Conext MPPT 60 150 Solar Charge Controller: Product No. 865-1030-1
- Conext MPPT 80 600 Solar Charge Controller: Product No. 865-1032
- Conext MPPT 100 600 Solar Charge Controller: Product No. 865-1034
- Conext System Control Panel (SCP): Product No. 865-1050-01
- Conext Automatic Generator Start (AGS): Product No. 865-1060-01
- Conext Battery Monitor: Product No. 865-1080-01

Dimensions





Schneider Electric

70 Mechanic Street Foxborough, Massachusetts 02035 United States http://se.com

As standards, specifications, and designs change from time to time, please ask for confirmation of the information given in this publication.

For other country details please contact your local Schneider Electric Sales Representative or visit the Schneider Electric website at: http://se.com

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