InsightFacility

Owner's Guide

990-91411B August 2023





https://se.com/

Legal Information

The Schneider Electric brand and any trademarks of Schneider Electric SE and its subsidiaries referred to in this guide are the property of Schneider Electric SE or its subsidiaries. All other brands may be trademarks of their respective owners.

This guide and its content are protected under applicable copyright laws and furnished for informational use only. No part of this guide may be reproduced or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), for any purpose, without the prior written permission of Schneider Electric.

Schneider Electric does not grant any right or license for commercial use of the guide or its content, except for a non-exclusive and personal license to consult it on an "as is" basis. Schneider Electric products and equipment should be installed, operated, serviced, and maintained only by qualified personnel.

As standards, specifications, and designs change from time to time, information contained in this guide may be subject to change without notice.

To the extent permitted by applicable law, no responsibility or liability is assumed by Schneider Electric and its subsidiaries for any errors or omissions in the informational content of this material or consequences arising out of or resulting from the use of the information contained herein.

If this manual is in any language other than English, although steps have been taken to maintain the accuracy of the translation, the accuracy cannot be guaranteed. Approved content is contained with the English language version which is posted at https://se.com/.

Contact Information

For country-specific details, please contact your local Schneider Electric Sales Representative or visit the Schneider Electric website at: <u>https://se.com/</u>

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 Product Number	Purchased From Purchase Date
Document Number: 990-91411B	Date: August 2023
Model Name:	InsightFacility
Product Part Number:	865-0335

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

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, 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 InsightFacility to extremely high ambient temperature or extremely low air pressure as flammable liquid or gas my 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 InsightFacility 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 InsightFacility to the WAN/MODEM port on the network router.
- Do not connect an ethernet cable plug into a Xanbus port on the InsightFacility.
- Do not connect a Xanbus RJ-45 cable plug into the 10/100 ethernet port of theInsightFacility.
- Do not connect any port on the InsightFacility 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 InsightFacility.
- See Warranty for instructions on obtaining service.
- The InsightFacility contains no user serviceable parts. Attempting to service the InsightFacility yourself will void your warranty.

Failure to follow these instructions can result in equipment damage.

NOTICE

EQUIPMENT DAMAGE

- Do not port-forward any InsightFacility 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 InsightFacility 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 InsightFacility 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 InsightFacility.

About

Purpose

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

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 InsightFacility features and functions described in this Owner's Guide may be incorporated with later firmware versions. This Owner's Guide is valid for InsightFacility Version 1.05 (always check the website for the latest firmware and user manual). To view the firmware version on your product, see the InsightFacility Status Information in the web user interface.

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 https://se.com/)
- Conext XW+ Inverter/Charger Owner's Manual (part number: depends on configuration - see https://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 https://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 https://se.com/.

Contents

Legal Information	1
Contact Information	1
Information About Your System	1
Purpose	6
Scope	6
Firmware Revision	6
Abbreviations and Acronyms	6
Related Documents	7
Related Information	7
Introduction	11
Compatible Xanbus™ Components	11
Material List	12
Physical Features	. 13
Power Button Operation	. 14
LED Indicator Operation	. 14
26-pin Connector Pinouts	. 14
Types of InsightFacility Networks	15
Power Sources for the InsightFacility	15
InsightLocal Web Portal	16
Choosing a Location	19
Materials and Tools Required	. 20
Mounting the InsightFacility	21
DIN Rail Mount	21
Connecting the InsightFacility to the Xanbus Network	21
Connecting the InsightFacility to the Internet	23
Turning On the InsightFacility	25
Turning Off the InsightFacility	26
Power Cycling	. 26
Using InsightLocal via Wi-Fi Access Point (AP)	29
Enabling Wi-Fi Station	. 30
Web Security	31
Configuring the InsightFacility	32
Logging in to InsightLocal	32
User Access Levels	33
Changing the Password	34
InsightCloud	36
Create an InsightCloud Account	. 36
Verify the Cloud Connection (InsightLocal)	36
Create a New Site (InsightCloud)	37
InsightMobile	38
Downloading the App and Connecting to the InsightFacility	38
Disconnecting from InsightMobile	. 39

Changing InsightFacility Settings	39
Site Settings	40
Changing the Time	40
Import and Export Settings	41
Units	42
Restarting the InsightFacility	42
Upgrading Firmware	43
Installing InsightFacility Upgrades From a USB Drive	
Installing InsightFacility Upgrades Remotely	
Upgrading Other Device Firmware	45
Connecting and Configuring Modbus Devices	48
Modbus TCP Settings	49
Removing a Modbus Device	50
Changing Device Settings	51
Refresh Data, Basic, and Advanced Buttons	
Device Association	53
Enabling the IEEE 2030.5 Protocol	54
Configuring the Grid Code Region	55
Monitoring LED Indicators	57
Startup	57
Monitoring the Power Plant	58
Events	61
Electrical Specifications	65
Physical Specifications	65
Features	66
Regulatory	
FCC Regulatory Compliance	66
ISED Regulatory Compliance	67
Simplified EU Declaration of Conformity	68
Schneider Electric Products that Work with the InsightFacility	68
Dimensions	69

1 Overview

What's in This Chapter?

Introduction	11
Compatible Xanbus™ Components	11
Material List	12
Physical Features	13
Power Button Operation	14
LED Indicator Operation	14
26-pin Connector Pinouts	14
Types of InsightFacility Networks	15
Power Sources for the InsightFacility	15
InsightLocal Web Portal	16

Introduction

The InsightFacility is a multi-function communication device that provides an overall view of system performance for residential and commercial power monitoring systems. It also provides a communications gateway between a network of Xanbus[™]-enabled devices and Modbus devices. Operators can configure the InsightFacility 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 33

Other features of the InsightFacility include:

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

Compatible Xanbus™ Components

The InsightFacility works with several Schneider Electric products including:

- Conext 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
- CL 30, CL 33, and CL 50 inverters

For details on specific models supported, see Electrical Specifications on page 65.The InsightFacility supports up to a maximum of 20 devices on a Xanbus network depending on the device types.

Material List

Figure 1 Material list



NOTE:

- Do not discard the packaging box.
- The Wi-Fi password is printed on the unit.
- Install the antennas before turning on the unit.

1	Removable antennas
2	InsightFacility unit
3	Network terminator
4	75 mm DIN rail
5	Ethernet cable (CAT5e)
not shown	 BMS CAN terminator 26-pin connector (see Physical Features on page 13)
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 InsightFacility. The tables in the following sections contain descriptions of the connectors, indicators, and data ports on the InsightFacility.



Figure 2 Ports, buttons, and indicators

1	Xanbus ports 1	1st pair of Xanbus ports used for Xanbus communications
2	Xanbus ports 2	2nd pair of Xanbus ports used for Xanbus communications
3	Ethernet port	Use to connect to the internet via an ethernet cable.
4	Antenna	Adjustable antenna for Wi-Fi transmission and reception
5	26-pin port	Use for connecting the 26-pin connector.
6	LED indicators	LED indicators are used for signifying device, communication, and
		monitoring statuses.
7	Wi-Fi button	Press and hold to turn on or turn off Wi-Fi setup network.
8	Settings button	Press to enter device configuration mode.
9	Power button	Press to enable/disable the InsightFacility.
10	Power port	Use for connecting the AC/DC power plug.
11	DIN rail clip	Use for attaching the device to a 35mm EN50022 DIN rail. The clip
	(detachable)	can be detached and re-attached to one of the narrow sides of the
		device.
12	Reset pinhole	Press to reset the InsightFacility.
	button	
13	USB port	Use for firmware updates only. Do not use to charge USB devices.

Power Button Operation

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

Table 1 Power button operation

LED Indicator Operation

See Monitoring LED Indicators on page 57.

26-pin Connector Pinouts

Figure 3 26-pin connector



* These pins are currently reserved for future functionality, check https://se.com/ for updates.

Types of InsightFacility Networks

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

- InsightFacility on Xanbus (two separate networks can be supported)
- InsightFacility on Modbus (via the 26-pin connector)
- InsightFacility on Local Area Network (LAN, via ethernet or Wi-Fi)
 When the InsightFacility is part of a LAN, you can access the InsightFacility web user interface from a computer on the same LAN via a wireless or wired LAN connection.

An ethernet connection is required between the InsightFacility and a router and computer for configuring the InsightFacility.

Power Sources for the InsightFacility

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

There are three power sources for the InsightFacility:

- AC/DC power adapter (not supplied)
- Xanbus-enabled device via CAT5 or CAT5e cable (Xanbus cable)
- 9–24 V DC power input connections on the 26-pin connector

All three sources can be used alone or simultaneously. Typically, the AC/DC power adapter (not supplied) is used as a primary source with either a Xanbus connection or the 26-pin connector as secondary sources. See "Physical Features" on page 13 for connection locations.

A WARNING

ELECTRICAL SHOCK AND FIRE HAZARD

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 InsightFacility, the SELV circuits and their intended connections are:

- The AC/DC power adapter connected to the power port of the InsightFacility.
- Xanbus communications and power which come from SELV circuits on Xanbusenabled Schneider products.
- 9–24 V DC power input connections which must be SELV and are connected to the

InsightFacility via the 26-pin connector.

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 InsightFacility. This interface is used to check the status of the InsightFacility, 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 32.

Figure 4 Web user interface



1	Main menu bar – displays major menu items including the Dashboard, Devices,
	Events, and Setup commands. It includes About , which shows InsightFacility 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?

Choosing a Location	19
Materials and Tools Required	
Mounting the InsightFacility	21
DIN Rail Mount	21
Connecting the InsightFacility to the Xanbus Network	21
Connecting the InsightFacility to the Internet	
Turning On the InsightFacility	25
Turning Off the InsightFacility	
Power Cycling	

Choosing a Location

Figure 5 Location choices



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

Materials and Tools Required

The following materials are supplied in the InsightFacility package:

- One InsightFacility unit
- One InsightFacility Quickstart Guide
- One CAT5e ethernet cable (7-ft)
- One 26-pin connector
- One 75 mm DIN rail

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 InsightFacility

DIN Rail Mount

To mount the InsightFacility on the DIN Rail:

- 1. Use a standard 35-mm "top hat" DIN rail (EN50022).
- 2. You may choose to move the mounting clip to the side as shown.



3. Attach the device to the DIN rail. Hook the bottom catch of the clip onto the rail, pull up a little to retract the bottom catch and hook the top catch of the clip onto the rail.



4. Connect the wiring and cables.

Connecting the InsightFacility to the Xanbus Network

Network Sizing Guidelines

	InsightFacility
Xanbus Networks	2
Maximum Total Connected XW Pro Units and MPPT Charge Controllers*	18

* Xanbus Installation Rules:

- When using InsightFacility with more than six total XW Pro units and MPPT charge controllers, then all XW Pro units must be connected on one network and all MPPT charge controllers on the other network.
- 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.

Example configuration:

4 XW Pro connected to InsightFacility on network 1, and 8 MPPT connected to InsightFacility on network 2.

To connect the InsightFacility to the Xanbus network:

- 1. Connect the InsightFacility to the Xanbus network using daisy chain confguration.
 - a. Xanbus components can be arranged in any order.
 - b. The left connectors are Xanbus 1 and the right connectors are Xanbus 2.
 - c. Do not connect two end devices together to form a closed loop configuration.
- 2. Use a network terminator at both ends of the network. See Figure 6.

Both networks require two Xanbus terminations; *Xanbus 1* and *Xanbus 2*, if the second network is used. *Xanbus 2* does not need terminators if it is not used.

- 3. Do not interconnect two separate Xanbus networks, meaning, do not daisy chain one Xanbus network with another.
 - a. Not intended to be used in two separate inverter systems.
 - b. Use only one pair of Xanbus ports for the daisy chain.
 - c. If you only have one Xanbus network use Xanbus 1.
 - d. If you have two separate Xanbus networks connect the second network to *Xanbus 2.*
 - e. Devices on the *Xanbus 1* network will not communicate with devices on the *Xanbus 2* network.
 - f. See Figure 6 for *Xanbus 1* pair of ports one top and one bottom.

NOTICE

EQUIPMENT DAMAGE

- Do not connect a Xanbus cable plug into the ethernet port on the InsightFacility.
- Connect only to Xanbus ports and use the network terminators to each end device in the daisy chain.
- Do not connect Xanbus 1 and Xanbus 2 together as the system will become unstable.

Failure to follow these instructions can result in equipment damage.

Figure 6 Sample Xanbus network



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

Connecting the InsightFacility to the Internet

Before connecting a computer and router to the InsightFacility, 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 InsightFacility to a computer on an ethernet network:

NOTICE

EQUIPMENT DAMAGE

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

Failure to follow these instructions can result in equipment damage.

- 1. Make sure the computer and network router are turned on and the InsightFacility is not turned on. Make sure the network router selected has DHCP enabled.
- 2. Con nect 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 InsightFacility.
- 7. At this stage, the ethernet cable should be the only cable plugged into the InsightFacility.

Figure 7 Ethernet connection (LAN)



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

Turning On the InsightFacility

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

Figure 8 Power connections and button



NOTE: In the 26-pin connector, pin 1 connects to a 9-24VDC source and pin 2 connects to GND Power input. See " 26-pin connector" on page 14.

To turn on the InsightFacility:

- 1. Select a power source to the InsightFacility. You can choose either of the following:
 - a. Plug the (A) AC/DC power adapter into the AC wall outlet
 - b. Connect the InsightFacility to the Xanbus network (B) using ethernet cables

WARNING

UNINTENDED OPERATION HAZARD

Xanbus is a valid power source for the InsightFacility, however, if you use Xanbus for the first time set-up the InsightFacility 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 InsightFacility clock and time zone before performing any other commissioning steps, refer to Changing the Time on page 40 for instructions.

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

c. Provide 9–24 VDC power via by connecting to a power input source via the 26-pin connector **(C)**

NOTE: An external power supply is not needed if the InsightFacility is connected to a Conext XW+ inverter, XW Pro inverter, MPPT-80, or MPPT-100 device.

- 2. Connect (A), (B), or (C)'s connector to InsightFacility's Power port for (A), Xanbus port for (B), or terminal block for (C), respectively.
- Connect (A)'s power plug to an AC wall outlet, connect (B)'s other Xanbus cable connector to a Xanbus port on a Xanbus device, or connect (C)'s pins 1 & 2 to an energy-limited DC source (9–24VDC). Make sure the Xanbus device is turned on.
- 4. Observe the LED indicators and wait for the Power LED to light up (solid). The

InsightFacility is now turned on.

5. Proceed to "Logging in to InsightLocal" on page 32.

Turning Off the InsightFacility

To turn off the InsightFacility:

- Press the Power button according to the settings in Table 1 on page 14.
 OR
- Use InsightLocal to shut down the unit and turn it off. Click Setup > Restart Gateway > Restart Gateway.

Figure 9 Power button



Power Cycling

To power cycle the InsightFacility:

- 1. Turn the InsightFacility OFF.
 - a. Press and hold the power button according to the settings in Table 1 on page 14 or use InsightLocal.
 - b. Remove the power connections to the InsightFacility.

OR

- c. 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 InsightFacility ON.
 - a. Plug and connect the InsightFacility to a power source.
 - b. Press the power button.

3 Getting Started

What's in This Chapter?

Using InsightLocal via Wi-Fi Access Point (AP)	29
Enabling Wi-Fi Station	
Web Security	
Configuring the InsightFacility	32
Logging in to InsightLocal	32
User Access Levels	
Changing the Password	
InsightCloud	
Create an InsightCloud Account	36
Verify the Cloud Connection (InsightLocal)	
Create a New Site (InsightCloud)	
InsightMobile	
Downloading the App and Connecting to the InsightFacility	
Disconnecting from InsightMobile	
Changing InsightFacility Settings	39
Site Settings	40
Changing the Time	40
Import and Export Settings	41
Units	
Restarting the InsightFacility	42
Upgrading Firmware	43
Installing InsightFacility Upgrades From a USB Drive	43
Installing InsightFacility Upgrades Remotely	44
Upgrading Other Device Firmware	45

Using InsightLocal via Wi-Fi Access Point (AP)

Wi-Fi Access Point allows you to connect your PC or tablet directly to the InsightFacility. 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 Wi-Fi Station" on the facing page).

In order to establish a user interface with InsightFacility, a direct Wi-Fi connection is necessary. 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 10 Wi-Fi connection requirements



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

To connect:

- 1. Make sure the laptop and InsightFacility 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 InsightFacility SSID. For example, you may look for something similar to InsightFacility_xxxxxx.



- Enter the Password when prompted.
 NOTE: The password is printed on a label on the back panel of the InsightFacility unit.
- 5. Proceed to "Logging in to InsightLocal" on page 32.

Enabling Wi-Fi Station

When the InsightFacility 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 InsightFacility desktop app. Before proceeding, verify that you are connected to the InsightFacility via the Wi-Fi Access Point instead of a cabled ethernet (LAN) connection (see "Using InsightLocal 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
P5PT56HT93	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
-	0
	Host name *
	cb-F21905000783
	APPLY CANCEL

Figure 11 Wi-Fi Station connection

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

Figure 12 Adding a network manually

Gateway_b0ed	de5	
P5PT56HT94		

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

Web Security

When you access the InsightFacility web user interface 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 InsightFacility

To complete InsightFacility setup, you must successfully complete the procedures in Installation on page 18. Make sure the InsightFacility 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 the web user interface, 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 InsightFacility configuration process:

Primary

- 1. Log in see "Logging in to InsightLocal" below
- 2. Change the password see "Changing the Password" on page 34
- 3. Set plant site information see "Site Settings" on page 40
- 4. Set the system time see "Changing the Time" on page 40

Optional/Occasional

- 1. Configure general device settings see "Changing Device Settings" on page 51
- 2. Upgrade the device firmware see "Upgrading Firmware" on page 43

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 InsightFacility via Wi-Fi Access Point, go to the IP address https://192.168.100.1 to access InsightLocal.
- 2. If you have connected the InsightFacility via ethernet or Wi-Fi Station, use the following steps:
 - Insert a blank USB drive into the InsightFacility USB port.
 Ensure there are no firmware upgrade files on this USB drive.
 - b. After the InsightFacility 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 InsightFacility.
- 3. Bookmark this address. **Important:** The web address is a locally and privately assigned (LAN) device address that is also protected by a firewall.
- 4. Select your User Name. Select Admin.

NOTE: A maximum of two Admin users can be logged in to one InsightFacility 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, change the initial password immediately to protect the device from unauthorized users and to enable changes to device settings.

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



User name	
Admin	•
Password	
Password	
	Login
	All fields are required

- 7. Change the InsightFacility 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 10 to 12 alphanumeric characters, including symbols.
 - 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/ InsightFacility
Admin	Can configure the InsightFacility and attached devices.	2
User	Can view the InsightFacility dashboard and the status of attached devices, but cannot configure the InsightFacility or attached devices. The password for this account is used to connect to a InsightFacility through the mobile app.	5
Guest	Can only view the InsightFacility dashboard.	1

Changing the Password

What to expect when logging in for the first time:

When logging in to the 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 13 Message box to change password



• 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 14 Password screen

Change password	
You are currently logged in with the default password. Change the p	assword to ensure security of your plant data.
User name	User
Old password	Password
New password	Password
Confirm password	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 15 Change password setting

Dashboard	Devices	Events	Setup	About		
Configuration	Change password					M
Network Manage Passwords			User name	Select user •		
Device Detection			Old password New password			
			' Confirm password	• R 10 sharastan		
				At least one capital letter At least one number		
					Apply	Cancel

- 1. Click Setup > Manage Passwords > Change Passwords.
- 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.

	E Email
	Password 🛷
InsightCloud	Login 👈
Google Play	Foroct.Rassword2 Demo Sion.ur

- 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 Login.

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 InsightFacility, 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. For more information, see your gateway device Owner's guide.
- 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 gateway deviceInsightFacility 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 gateway deviceInsightFacility is connected to the Cloud, the "Cloud connection status" indicator will change from red to green, and the

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

"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 gateway deviceInsightFacility 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.

Dashboard	Devices	Events	Setup	About	
Configuration	Remote diagnost	ics			
Network	Cloud settings				
Manage Passwords					
Device Detection	Cloud	Settings			0
Smart Energy Manager					
BMS Setup	Enter	cloud configuration	settings		
	Cloud	I Enable 🕜			Enabled
	Allow	Firmware Upgrade 🕜			Enabled
	Unifo (URN	rm Resource Name 🧿	urn:dev:opm	:000054-Combox-883F-	4AA9D3B3
	Cloud	Connection Status 🕜			~
	Date/	Time OK 🕐			1
	Local Statu	Network Connectivity 🥝 s			1

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		SETTINGS DEVICES	DOCUMENTS		
MPPT Disconn	ect RS >	MAC Address : 🕖			58:7A:62:66:25:F9
Battery	er >				
User Interface Charge Contro	ller >	Product Serial Number : 🕑			eog0006
-					viste
				Op	Usice

- 5. In the *MAC Address* field, enter the MAC address from the rating label on your gateway deviceInsightFacility.
- 6. In the *Product Serial Number* field, enter the serial number of the gateway deviceInsightFacility. 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.

Table 2 InsightCloud	user	rights
----------------------	------	--------

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

InsightMobile

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

Prerequisites

Before installing InsightMobile SE, 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 the InsightFacility

- 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.

In the Search screen, all nearby devices will be listed by serial number.

- 5. Tap to select and connect to your device.
- 6. 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 36.

Insight Mobil	le
Email ID	
Password	<i>W</i>
Login	
SignUp	
Forgot your password ?	Demo mode
Life Is On	Schneider G ^{Electric}

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

Disconnecting from InsightMobile

To logout and disconnect from InsightMobile:

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

Changing InsightFacility Settings

The procedures for configuring the other InsightFacility Settings are described in the following sections.

To change InsightFacility settings:

1. In the main menu bar, click **Setup > Configuration**.

The **Configuration** settings appear in the main display area.

- 2. Click any of the following settings.
 - Plant setup see Site Settings on page 40
 - Time setup see Changing the Time on page 40
 - Import & export settings see Import and Export Settings on page 41
 - Units see Units on page 42
 - Modbus settings see Connecting and Configuring Modbus Devices on page 48
 - Restart InsightFacility see Restarting the InsightFacility on page 42
 - Upgrade firmware see Upgrading Firmware on page 43
- 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 16 Site setup screen

Dashboard	Devices	Events	Setup	Abou	t		
Configuration	Site Settings						~
Network			Fr	endly name	InsightHome		
Manage Passwords			Installed AC ca	apacity (kW)	6		
Device Detection			In	stalled year	2020		
Smart Energy Manager						Apply	Cancel
BMS Setup							
	Time setup						>
	Import & export se	ettings					>

To enter site information:

- 1. Click Setup > Configuration > Site setup.
- 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 to work properly, you must set the correct time and time zone. You can choose to use the network time for your system.

Figure 17 Time setup screen

Dashboard	Devices	Events	Setup	About
Configuration	Plant setup			
Network	Time setup			8
Manage Passwords			Time	zone (-08:00) Pacific Time (US, Canada, Tijuana) 🔹
Device Detection			Date &	time 2019/01/16 20:16:40
				Apply Cancel

To change the InsightFacility time:

- 1. Click Setup > Configuration > Time setup.
- 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.

Import and Export Settings

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



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

To export settings:

1. 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 InsightFacility device.

To import settings:

1. 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.

Units

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

Figure 19 Units setup screen

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

To change units:

1. 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 InsightFacility

You can restart, reset the configuration, or return the InsightFacility 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 14.

Figure 20 Restart InsightFacility screen

Select an option:

- 1. Click Setup > Configuration > Restart InsightFacility.
- 2. Click any of the action buttons depending on the kind of reset you want to perform.
 - Restart InsightFacility will execute a soft restart of the InsightFacility unit.
 - **Reset configuration** will execute a reset of InsightFacility 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 InsightFacility and Xanbus-enabled devices when they are available for download.

There are three upgrade procedures, namely:

- "Installing InsightFacility Upgrades From a USB Drive" below
- Installing InsightFacility Upgrades Remotely" on the facing page
- "Upgrading Other Device Firmware" on page 45

Installing InsightFacility Upgrades From a USB Drive

Follow the procedure below to change the InsightFacility 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 https://se.com/ and download the latest InsightFacility firmware version (contained in a ZIP file).
- 3. Navigate to Products > Battery Based Inverters > Accessories > InsightFacility
- 4. Click **DOWNLOADS > Firmware**.
- 5. Pick the firmware version (V) with a higher number and also a higher build number (BN). The ZIP file is approximately 49 MB.
- 6. Extract the .epkg file from the ZIP file into the root directory of the USB drive (supplied with the unit).
- 7. To initiate the update to the firmware:
 - a. Insert the USB drive into the port on the InsightFacility.
 - b. The InsightFacility will beep once and the LED will blink while the the firmware is copied to the InsightFacility 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 InsightFacility.

- 8. Once the firmware upgrade is done, the InsightFacility emits two beeps. and the LED indicator stops blinking.
- 9. Remove the USB drive.
- 10. Manually reboot the InsightFacility using the power switch to complete the firmware upgrade process.

Installing InsightFacility Upgrades Remotely

1. Go to Setup > Configuration > Firmware Upgrade.

Dashboard	Devices	Events	Setup	About		
Configuration	Site Settings				>]
Network	Time setup				>	
Manage Passwords	Import & export	settings			>	1
Device Detection	Units				\$	1
Smart Energy Manager					·	
BMS Setup	Modbus settings				>	
	Restart Gateway				>	
	Firmware Upgrad	le			×	
			installe E	ed firmware Version Juild number	v1.15DEV 714	
			Ma	nual update	Upload package Get package	
	Region Settings				>	

- 2. Download the firmware package.
 - a. Click Get package. This will take you to the InsightFacility 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 Setup > Configuration > Firmware Upgrade.
- 4. Click Upload package.
- 5. Search and select the firmware package (.epkg file) you saved in a local directory from the InsightFacility product webpage.
- 6. Click **Open** from the Windows dialog. The upgrade begins automatically.
- 7. As the firmware package is transferred to the InsightFacility, progress is indicated in percentage, and a message screen indicates when the file transfer has been completed successfully.
- 8. When prompted, restart the InsightFacility. See Restarting the InsightFacility on page 42.

Upgrading Other Device Firmware

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

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 21 Sample Device Overview screen - List display

Dashboard	Devices					
vice Overview	Inverter/Charg	ger: 0 0 Change Sek	ection			
	Status	Performance	Events	Configuration	Diagnostics	Firmware
erters						
erter/Chargers	Firmwa	are Version		1.04.00	Please select the firmw	rare, ending with the file extension .xf0 or .x
arge Controllers	Build V	/ersion		2	Upgrade	Upgrade All XWs
or Davison						
Ier Devices						

To obtain the firmware package:

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

To upgrade a 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 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.
- 3. Click Firmware .
- 4. Click Upgrade.
- 5. Follow the step-by-step upgrade instructions.

- 6. To upgrade all similar devices in the network, click Upgrade All.
- 7. Follow the step-by-step upgrade instructions.
- 8. 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	48
Modbus TCP Settings	49
Removing a Modbus Device	50
Changing Device Settings	51
Refresh Data, Basic, and Advanced Buttons	52
Device Association	53
Enabling the IEEE 2030.5 Protocol	54
Configuring the Grid Code Region	55

Connecting and Configuring Modbus Devices

NOTE: For Modbus map information, contact Schneider Electric.

Connect Modbus wires to pins 16, 18, and 20 (see "Physical Features" on page 13), and then complete the following steps in InsightLocal :

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

Dashboard	Devices	Events	Setup	About	:		
Configuration	Site Settings						
Network	Time setup						
Manage Passwords	Import & export s	ettings					
Device Detection	Units						
Smart Energy Manager							
BMS Setup	Modbus settings						
				Serial Port A			
				Baud rate	9600 🗸		
				Parity	none 🗸		
				Stop bits	1 ~		
				Error Limit	3		
				Timeout (ms)	1000		

- 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		(b)		~
Network	Port	Range			
Manage Passwords	RS-485-1	to			
Device Detection	RS-485-2	to			Detect
Ĭ.					

- 5. Go to **Devices** and and then click the device image to select the device.
- 6. Go to **Configuration** and configure the device 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 Selection Status Performance Configu	ration Diamostics			
Inverters Inverter/Chargers	Canada - Constanting - Constanting))		C Basic Advanced	CL25[3] Online
Charge Controllers	CL25 Dev			•	
Other Devices	Device Association	None	Device Number	0	· 🔳 · 🝈
inclusion of the second s	Device Name	0 Load Grid		Apply Reset	()»

Modbus TCP Settings

Modbus TCP allows an external controller to communicate with the InsightFacility 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 22 Modbus TCP settings

Dashboard	Devices	Events	Setup	About	
Configuration	Remote diagnosti	ics			>
Network	Cloud settings				>
Manage Passwords	Wifi Access Point	t settings			>
Device Detection	IEEE 2030.5 settin	ngs			>
	Modbus TCP sett	ings			~
			Modbus TCP	APPLY CANCEL	
	Network settings				>

Removing a Modbus Device

To remove a Modbus device from InsightFacility:

- 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	Offline
Device Association	
Total Real Power	
Voltage Average	
Voltage Phase A	— 180634 мин
Voltage Phase B	
Voltage Phase C	—
Current Average	_
Current Phase A	_
Current Phase B	_
Current Phase C	—
Frequency	_

5. Click Delete Device.

Devices	Events	Setu	ıp About		
Meter: PM8XX 0 C	Change Selection				
Diagnostics					
Historical Eve	ents				PM8XX 0 Offline
Time		Id	Name	Description	
					120 vet 57 vet 180 v 19054 vet vet texts av
					Delete Device

6. In the Delete Device dialog, click Delete.

Delete Device			. 2.
Do you want to delete the device PM8XX 0?			
	Delete	Cancel	

7. Restart your InsightFacility (recommended).

Changing Device Settings

Before making any changes, familiarize yourself thoroughly with the effects of changing the settings of another 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 23 Sample Device Overview screen - Icons display

Device Overview	r devices Dispidy	Icons			
nverters					
nverter/Chargers	XW [20099]	Online	MPPT [1328371]	Online	HVMPPT [838217] On
Charge Controllers	Operating Operating Mode		Operating Operating Mode		Operating Operating Mode
Other Devices	Inverter Invert Status		Charger Not Status Charging		Charger Float
	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
	Load AC 93W Power		(PV) Input DC 0W		(PV) Input DC 0W
	Load AC 244.32V		Power		Power
	Load AC 60Hz		Voltage		Voltage
	Grid AC 0W		Association Battery Bank (Battery) 1		Association Battery Bank (Battery) 1
	Grid AC 0V		Output DC 0W Power		Output DC 1W Power
	Grid AC 0Hz		Output DC 28.08V Voltage		Output DC 28.19V Voltage
	Generator OW				
	Generator DV				
	Generator OHz				
	Frequency				
	Battery 225W Power				
	AGS [200031]	Online	AGS [804090]	Online	BATTMON (259586ba
	Operating Operating		Operating Operating		DC House
	Mode Generator Off		Mode Generator Off		Association Battery Bank (Battery) 1
	Mode Manual Off		Mode Auto Manual Off		Battery State 100% of Charge
	Generator		Generator		Battery 28.19V Voltage
	Generator Generator 1		Generator Generator 1		Battery 1.68A
	AC Input Grid 1		AC Input Grid 1		Battery 30degC
	DC Input House		DC Input House		Temperature
	Association Battery Bank		Association Battery Bank		

Figure 24 Sample Device Overview screen - List display

Dashboard	Devices	Events	Setup	About
Device Overview	7 devices Display	List Icons		
Inverters	Device type	Device Id	Status	
Inverter/Chargers	xw	20099	Online	
	GT	835209	Online	
Charge Controllers	HVMPPT	838217	Online	
Other Devices	MPPT	1328371	Online	
	AGS	804090	Online	
	BATTMON	259586	Online	
	AGS	200031	Online	

To change a device setting:

- 1. In the main menu bar, click **Devices**. See Figure 23 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 24.
- 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.
- 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.

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.

Device Association

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)	Grid 1	 AC Output Association (Loads) 	AC Load 1
AC2 Association (Generator)	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.

Dashboard	Devices	Events	Setup	About				
Davies Quantism	Inverter/Charger: XR 7700	Change Selectio	n					
Device Overview	Status Performan	ce Events	Configuration	Diagnostics	Firmware	Grid Codes		
Inverter/Chargers								
Other Devices	Device Operating State		Grid Tie					Basic Advanced
Meters	Grid Tie Operation State	Ext	oort (Sell)				Active Grid Support Function	
	one no operanity eran					Freq-Watt Over Freq	Freq-Watt Under Freq	Volt-Watt Over Volt
						Volt-Watt Under Volt	Volt-Var	Watt-PowerFactor
						Watt-Var	Fixed PowerFactor	Fixed var
	Dower Conversion	n						
	AC Active Power			6012 W	AC Voltage			241.7 V
	AC Reactive Power			-6 var	AC L1 Volta	age		120.9 V
	AC Apparent Power			6012 VA	AC Active C	Current		0 A
	AC Power Factor			0.17	AC Reactiv	e Current		0 A
	AC Frequency			60 Hz	AC Apparer	nt Current		49.6 A
	DC Voltage			57.2 V	DC Current			-126.8 A
	DC Power			-7248 W	Battery Cor	ntrol Mode		Voltage Control
	AC1 (Grid)							
	AC1 Active Power			5929 W	AC1 Active	Current		0 A
	AC1 Reactive Power			-8 Var	AC1 Reacti	ive Current		0 A
	AC1 Apparent Power			5929 VA	AC1 Appare	ent Current		49 A
	AC1 Power Factor			0.2	AC1 L1 Vol	tage		120.7 V
	AC1 Frequency			60 Hz	AC1 L2 Vol	tage		121 V
	AC1 Voltage			241.7 V	AC1 L1 Act	ive Current		0 A
	AC1 Qualification			Qualified	AC1 L2 Act	ive Current		0 A
	AC2 (Generator)							
	AC2 Active Power			0 W	AC2 Active	Current		0 A
	AC2 Reactive Power			0 Var	AC2 Reacti	ve Current		0 A

Enabling the IEEE 2030.5 Protocol

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

To configure the InsightFacility for IEEE 2030.5:

- 1. Place the InsightFacility 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] Admin Disclaimer Logout Life Is On S	chneider Electric
Dashboard			Setup			
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	bl		
			Local control			
			IP Address 10.172.19.218			
			Port 8443			
			0440			

For more information, see *XW Pro Inverter/Charger Owner's Guide* (part number: depends on configuration - see https://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					
Smart Energy Manager	Units				>
	Modbus settings	3			>
	Restart Gateway	1			>
	Install Package				>
	Region Settings	>			~
	Warnin	ng! Setting the region fr	om here will reset all the	e inverters to their default region settin	ıgs.

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

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 LED Indicators	. 57
Startup	. 57
Monitoring the Power Plant	58

Monitoring LED Indicators

LED indicators allow you to monitor the functioning of the InsightFacility.





\bigcirc	Green	Power	The InsightFacility is powered on.
	Green	Memory	Device is logging data to internal memory when flashing.
	Red	Event	Devices on the Power system have events to report.

Startup

The Power LED flashes slowly when the InsightFacility application is loading and flashes quickly during application initialization. Once the InsightFacility is ready, the Power LED turns on (solid). This process takes about two minutes.

Monitoring the Power Plant

You can view the current state of the power plant by viewing the InsightFacility dashboard.

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





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 InsightFacility 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 InsightLocal, 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 device's user manuals for suggested actions after you have acknowledged the message.

lcon	Туре	Description
0	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.
	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 InsightFacility 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 InsightFacility 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 Logs	•	2018/08/25 08:47:09 +0100	HVMPPT	838217	82	Network Power Supply Fault	The Network Power Supply has failed. Solution:
	0	Not Available	GT	835209	54	APS Off	PV Voltage is zero, and grid voltage is withir limits (240V AC Solution:

Figure 28 Historical events

Baomboard	Devices	Events	Setup	About			
tive	Event Type 👻	Time 💌	Device Type 💌	Device Id 🔍	Id 📼	Name 💌	Description
istorical	•	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:
	•	2018/10/15 21:34:48 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too ho Solution:
	•	2018/10/15 08:05:59 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too ho Solution:
		2018/10/03 02:03:53 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too ho Solution:
	0	2018/10/02 19:14:09 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too ho Solution:
	•	2018/10/01 14:57:11 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too ho Solution:
		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.
	9	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:

1. In the main menu bar, click **Events**.

The Active events are displayed first in the main display board.

2. Click Historical to view events that have been logged and/or resolved.

3. 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?

Electrical Specifications	65
Physical Specifications	65
Features	
Regulatory	
FCC Regulatory Compliance	66
ISED Regulatory Compliance	67
Simplified EU Declaration of Conformity	
Schneider Electric Products that Work with the InsightFacility	68
Dimensions	69

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
9–24 V on 26-pin connector	9–24 V DC, 1 A max input only through pins 1 and 2 Accepts 16–24 AWG pin wire size, wire length should meet local regulations
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)	330 g (0.73 lb)
Dimensions (device only) (W × H × D)	138 x 135 x 41 mm (5.4 × 5.3 × 1.6 inches)
Shipping package dimensions	193 × 161 × 105 mm (7.6 × 6.3 × 4.1 inches)
Shipping package weight	724 g / 1.6 lb
Housing/Mounting system	ABS Plastic / 35-mm DIN rail clip
IP rating / Mounting Location	IP 20, NEMA 1, Indoor only
Status Display	3 x LEDs
Temperature	Operating: -4 to 122 °F (-20 to 50 °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-base user interface	Internet Browser		
Remote firmware upgrades	Yes (InsightFacility and connected Xanbus devices)		

Regulatory

NOTE: Specifications subject to change without prior notice.

EMC immunity	EN61000-6-1	EN 55035	
	EN 301 489-1, -17		
	EN61000-6-3	EN 62311	
EMC emissions	EN 301 489-1, -17	EN 55032	
	FCC part 15B	ICES-003	
Substances / environmental	RoHS		
FCC ID	Contains 2AODL-CONEXTGTWY		
IC ID	Contains 24209-CONEXTGTWY		
Part number	865-0329		
Safety		EN 62368-1	

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: InsightFacility Part No.: 865-0335

Responsible Party – U.S. Contact Information

Schneider Electric 70 Mechanic Street Foxborough, Massachusetts 02035 United States

https://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: https://se.com/

Schneider Electric Products that Work with the InsightFacility

- Conext XWPro Inverter / Charger:
 - Conext XW Pro 8548 Product No. 865-8548-55
 - Conext XWPro 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

NOTE: Specifications subject to change without prior notice.



Schneider Electric

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

© 2023 Schneider Electric. All Rights Reserved.