

PowerLogic™

AccuSine PCSP, PFVP & PCSn

Firmware Release Notes

Active Harmonic Filter / Electronic VAR Control

PCSP4072960EN-01
04/2026



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Firmware Version 003.000.00040

About the Document

Document Scope

This document provides the following information about the PowerLogic™ range of products:

- New features and major fixes for the latest firmware version
- Firmware upgrade instructions for the AccuSine PCSP, PFVP & PCSn
- Firmware version history

Validity Note

This document applies to the AccuSine PCSP, PFVP & PCSn range of products with firmware version 003.002.000.

Product Related Information

Installation, wiring, testing and service must be performed in accordance with all local and national electrical codes.

⚠️⚠️ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E in the USA, CSA Z462, or applicable local standards.
- This equipment must be installed and serviced only by qualified electrical personnel.
- Do not exceed the device's ratings for maximum limits.
- Ground equipment using the ground connecting point provided before turning on any power supplying this device.
- Turn off all power supplying this device and the equipment in which it is installed before working on the device or equipment.
- After removing power, wait for 15 minutes to allow the capacitors to discharge prior to opening the doors or removing covers.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors, and covers before turning on power to this equipment.
- Carefully inspect the interior for tools left behind before closing and sealing the door.
- Verify the rating of the neutral conductor for each unit in the system is greater than the neutral current limit setting.

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

Cybersecurity Safety Notice

⚠ WARNING

POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY

- Change default passwords at first use to help prevent unauthorized access to device settings and information.
- Disable unused ports/services and default accounts, where possible, to minimize pathways for malicious attacks.
- Place networked devices behind multiple layers of cyber defenses (such as firewalls, network segmentation, and network intrusion detection and protection).
- Use cybersecurity best practices (for example, least privilege, separation of duties) to help prevent unauthorized exposure, loss, modification of data and logs, interruption of services, or unintended operation.
- Restrict unit access to authorized personnel only.

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

Online Information

The characteristics of the products described in this document are intended to match the characteristics that are available on www.se.com. As part of our corporate strategy for constant improvement, we may revise the content over time to enhance clarity and accuracy. If you see a difference between the characteristics in this document and the characteristics on www.se.com, consider www.se.com to contain the latest information.

General Cybersecurity Information

In recent years, the growing number of networked machines and production plants has seen a corresponding increase in the potential for cyber threats, such as unauthorized access, data breaches, and operational disruptions. You must, therefore, consider all possible cybersecurity measures to help protect assets and systems against such threats.

To help keep your Schneider Electric products secure and protected, it is in your best interest to implement the cybersecurity best practices as described in the [Cybersecurity Best Practices](#) document.

Schneider Electric provides additional information and assistance:

- Subscribe to the [Schneider Electric security newsletter](#).
- Visit the [Cybersecurity Support Portal](#) web page to:
 - Find Security Notifications.
 - Report vulnerabilities and incidents.
- Visit the [Schneider Electric Cybersecurity and Data Protection Posture](#) web page to:
 - Access the cybersecurity posture.
 - Learn more about cybersecurity in the cybersecurity academy.
 - Explore the cybersecurity services from Schneider Electric.

Related Documents

Title of documentation	Publication date	Reference number
<i>PowerLogic™ AccuSine EVC+ User Manual</i>	01/2023	PKR30257-00
<i>PowerLogic™ AccuSine PCS+, PFV+, and PCSn User Manual</i>	03/2023	JYT20814-00

Information on Non-Inclusive or Insensitive Terminology

As a responsible, inclusive company, Schneider Electric is constantly updating its communications and products that contain non-inclusive or insensitive terminology. However, despite these efforts, our content may still contain terms that are deemed inappropriate by some customers.

Introduction

Active Harmonic Filter PCSP

Active Harmonic Filters (AHF) are static power electronic products. AHF employ digital logic and IGBT semiconductors to synthesize a current waveform that is injected into the electrical network to cancel harmonic currents caused by nonlinear loads. AHF employ current transformers to measure the load current to determine the content of harmonic current present. By injecting the synthesized current, network harmonic currents are greatly mitigated. Thus reducing the heating effects of harmonic current and reducing voltage distortion to permit other equipment to operate properly and enjoy a long product life span.

AccuSine PCSP is a three wire product capable of harmonics correction of line to line connected loads. AccuSine PCSP is capable of operation with the presence of line to neutral loads, but will not be able to correct the neutral current and line current associated with the unconnected neutral.

AHF also have the ability to correct for poor Displacement Power Factor (DPF) and for mains current balancing. DPF correction can be provided for either leading (capacitive) or lagging (inductive) loads that cause poor DPF. Mains current balancing is achieved by measuring the negative sequence current present and injecting the inverse negative sequence current to balance the current for the upstream network.

Product Range	Commercial Reference	Description
PCSP	PCSP040D7IP31	AccuSine PCS+ 40A 600-690 VAC IP31
PCSP	PCSP040D7IP54	AccuSine PCS+ 40A 600-690 VAC IP54
PCSP	PCSP040D7N12	AccuSine PCS+ 40A 600-690 VAC N12
PCSP	PCSP040D7N2	AccuSine PCS+ 40A 600-690 VAC N2
PCSP	PCSP047D6IP31	AccuSine PCS+ 47A 500-600 VAC IP31
PCSP	PCSP047D6IP54	AccuSine PCS+ 47A 500-600 VAC IP54
PCSP	PCSP047D6N12	AccuSine PCS+ 47A 500-600 VAC N12
PCSP	PCSP047D6N2	AccuSine PCS+ 47A 500-600 VAC N2
PCSP	PCSP060D2IP00	AccuSine PCS+ 60A 208-240V IP00
PCSP	PCSP060D2IP31	AccuSine PCS+ 60A 208-240V IP31
PCSP	PCSP060D2IP54	AccuSine PCS+ 60A 208-240V IP54
PCSP	PCSP060D2N12	AccuSine PCS+ 60A 208-240V N12
PCSP	PCSP060D2N2	AccuSine PCS+ 60A 208-240V N2
PCSP	PCSP060D5IP00	AccuSine PCS+ 60A 380-480 VAC IP00
PCSP	PCSP060D5IP31	AccuSine PCS+ 60A 380-480 VAC IP31
PCSP	PCSP060D5IP54	AccuSine PCS+ 60A 380-480 VAC IP54
PCSP	PCSP060D5N12	AccuSine PCS+ 60A 380-480V N12
PCSP	PCSP060D5N2	AccuSine PCS+ 60A 380-480 VAC N2
PCSP	PCSP080D7IP31	AccuSine PCS+ 80A 600-690 VAC IP31
PCSP	PCSP080D7IP54	AccuSine PCS+ 80A 600-690 VAC IP54
PCSP	PCSP080D7N12	AccuSine PCS+ 80A 600-690 VAC N12
PCSP	PCSP080D7N2	AccuSine PCS+ 80A 600-690 VAC N2
PCSP	PCSP094D6IP31	AccuSine PCS+ 94A 500-600 VAC IP31
PCSP	PCSP094D6IP54	AccuSine PCS+ 94A 500-600 VAC IP54
PCSP	PCSP094D6N12	AccuSine PCS+ 94A 500-600 VAC N12
PCSP	PCSP094D6N2	AccuSine PCS+ 94A 500-600 VAC N2
PCSP	PCSP120D2IP00	AccuSine PCS+ 120A 208-240V IP00

Product Range	Commercial Reference	Description
PCSP	PCSP120D2IP31	AccuSine PCS+ 120A 208-240V IP31
PCSP	PCSP120D2IP54	AccuSine PCS+ 120A 208-240V IP54
PCSP	PCSP120D2N12	AccuSine PCS+ 120A 208-240V N12
PCSP	PCSP120D2N2	AccuSine PCS+ 120A 208-240V N2
PCSP	PCSP120D5IP00	AccuSine PCS+ 120A 380-480 VAC IP00
PCSP	PCSP120D5IP31	AccuSine PCS+ 120A 380-480 VAC IP31
PCSP	PCSP120D5IP54	AccuSine PCS+ 120A 380-480 VAC IP54
PCSP	PCSP120D5N12	AccuSine PCS+ 120A 380-480 VAC N12
PCSP	PCSP120D5N2	AccuSine PCS+ 120A 380-480 VAC N2
PCSP	PCSP133D7IP31	AccuSine PCS+ 133A 600-690 VAC IP31
PCSP	PCSP133D7IP54	AccuSine PCS+ 133A 600-690 VAC IP54
PCSP	PCSP133D7N12	AccuSine PCS+ 133A 600-690 VAC N12
PCSP	PCSP133D7N2	AccuSine PCS+ 133A 600-690 VAC N2
PCSP	PCSP157D6IP31	AccuSine PCS+ 157A 500-600 VAC IP31
PCSP	PCSP157D6IP54	AccuSine PCS+ 157A 500-600 VAC IP54
PCSP	PCSP157D6N12	AccuSine PCS+ 157A 500-600 VAC N12
PCSP	PCSP157D6N2	AccuSine PCS+ 157A 500-600 VAC N2
PCSP	PCSP200D2IP00	AccuSine PCS+ 200A 208-240V IP00
PCSP	PCSP200D2IP31	AccuSine PCS+ 200A 208-240V IP31
PCSP	PCSP200D2IP54	AccuSine PCS+ 200A 208-240V IP54
PCSP	PCSP200D2N1	AccuSine PCS+ 200A 208-240V N1
PCSP	PCSP200D2N12	AccuSine PCS+ 200A 208-240V N12
PCSP	PCSP200D2N2	AccuSine PCS+ 200A 208-240V N2
PCSP	PCSP200D5IP00	AccuSine PCS+ 200A 380-480 VAC IP00
PCSP	PCSP200D5IP31	AccuSine PCS+ 200A 380-480 VAC IP31
PCSP	PCSP200D5IP54	AccuSine PCS+ 200A 380-480 VAC IP54
PCSP	PCSP200D5N1	AccuSine PCS+ 200A 380-480V N1
PCSP	PCSP200D5N12	AccuSine PCS+ 200A 380-480 VAC N12
PCSP	PCSP200D5N2	AccuSine PCS+ 200A 380-480 VAC N2
PCSP	PCSP200D7IP31	AccuSine PCS+ 200A 600-690 VAC IP31
PCSP	PCSP200D7IP54	AccuSine PCS+ 200A 600-690 VAC IP54
PCSP	PCSP200D7N12	AccuSine PCS+ 200A 600-690 VAC N12
PCSP	PCSP200D7N2	AccuSine PCS+ 200A 600-690 VAC N2
PCSP	PCSP235D6IP31	AccuSine PCS+ 235A 500-600 VAC IP31
PCSP	PCSP235D6IP54	AccuSine PCS+ 235A 500-600 VAC IP54
PCSP	PCSP235D6N12	AccuSine PCS+ 235A 500-600 VAC N12
PCSP	PCSP235D6N2	AccuSine PCS+ 235A 500-600 VAC N2
PCSP	PCSP300D2IP00	AccuSine PCS+ 300A 208-240V IP00
PCSP	PCSP300D2IP31	AccuSine PCS+ 300A 208-240V IP31
PCSP	PCSP300D2IP54	AccuSine PCS+ 300A 208-240V IP54
PCSP	PCSP300D2N1	AccuSine PCS+ 300A 208-240V N1
PCSP	PCSP300D2N12	AccuSine PCS+ 300A 208-240V N12
PCSP	PCSP300D2N2	AccuSine PCS+ 300A 208-240V N2
PCSP	PCSP300D5IP00	AccuSine PCS+ 300A 380-480 VAC IP00
PCSP	PCSP300D5IP31	AccuSine PCS+ 300A 380-480 VAC IP31
PCSP	PCSP300D5IP54	AccuSine PCS+ 300A 380-480 VAC IP54

Product Range	Commercial Reference	Description
PCSP	PCSP300D5N1	AccuSine PCS+ 300A 380-480V N1
PCSP	PCSP300D5N12	AccuSine PCS+ 300A 380-480 VAC N12
PCSP	PCSP300D5N2	AccuSine PCS+ 300A 380-480 VAC N2

Power Factor Correction PFVP

AccuSine PFVP are static power electronic products. It employs digital logic and IGBT semiconductors to synthesize a current waveform that is injected into the electrical network to cancel load induced poor Displacement Power Factor (DPF), phase current unbalance, and flicker. The DPF correction can be provided for either leading (capacitive) or lagging (inductive) loads that cause poor DPF. The mains current balancing is achieved by measuring the negative sequence current present and injecting the inverse negative sequence currents to balance the current for the network. Flicker control is provided by rapid detection and injection of reactive current (VARs) to help prevent the reactive current from overloading the network that causes rapid voltage deviations identified as flicker.

AccuSine PFVP is a three wire product capable of harmonics correction of line to line connected loads. AccuSine PFVP is capable of operation with the presence of line to neutral loads, but will not be able to correct the neutral current and line current associated with the unconnected neutral.

AccuSine PFVP also have the ability to monitor the network voltage on which they are connected and determine the proper amount of VARs to either raise the network voltage or lower it. AccuSine PFVP will inject leading VARs to raise the voltage and lagging VARs to lower the voltage. The entry of appropriate parameters will keep the network within its stated voltage tolerance level.

Product Range	Commercial Reference	Description
PFVP	EVCP040D7IP31	AccuSine PFV+ 40A 600-690 VAC IP31
PFVP	EVCP040D7IP54	AccuSine PFV+ 40A 600-690 VAC IP54
PFVP	EVCP040D7N12	AccuSine PFV+ 40A,600-690 VAC N12
PFVP	EVCP040D7N2	AccuSine PFV+ 40A 600-690 VAC N2
PFVP	EVCP047D6IP31	AccuSine PFV+ 47A 500-600 VAC IP31
PFVP	EVCP047D6IP54	AccuSine PFV+ 47A 500-600 VAC IP54
PFVP	EVCP047D6N12	AccuSine PFV+ 47A 500-600 VAC N12
PFVP	EVCP047D6N2	AccuSine PFV+ 47A 500-600 VAC N2
PFVP	EVCP060D2IP00	AccuSine PFV+ 60A 208-240V IP00
PFVP	EVCP060D2IP31	AccuSine PFV+ 60A 208-240V IP31
PFVP	EVCP060D2IP54	AccuSine PFV+ 60A 208-240V IP54
PFVP	EVCP060D2N12	AccuSine PFV+ 60A 208-240V N12
PFVP	EVCP060D2N2	AccuSine PFV+ 60A 208-240V N2
PFVP	EVCP060D5IP00	AccuSine PFV+ 60A 380-480 VAC IP00
PFVP	EVCP060D5IP31	AccuSine PFV+ 60A 380-480 VAC IP31
PFVP	EVCP060D5IP54	AccuSine PFV+ 60A 380-480 VAC IP54
PFVP	EVCP060D5N12	AccuSine PFV+ 60A 380-480 VAC N12
PFVP	EVCP060D5N2	AccuSine PFV+ 60A 380-480 VAC N2
PFVP	EVCP080D7IP31	AccuSine PFV+ 80A 600-690 VAC IP31
PFVP	EVCP080D7IP54	AccuSine PFV+ 80A 600-690 VAC IP54
PFVP	EVCP080D7N12	AccuSine PFV+ 080A 600-690 VAC N12
PFVP	EVCP080D7N2	AccuSine PFV+ 80A 600-690 VAC N2
PFVP	EVCP094D6IP31	AccuSine PFV+ 94A 500-600 VAC IP31

Product Range	Commercial Reference	Description
PFVP	EVCP094D6IP54	AccuSine PFV+ 94A 500-600 VAC IP54
PFVP	EVCP094D6N12	AccuSine PFV+ 94A 500-600 VAC N12
PFVP	EVCP094D6N2	AccuSine PFV+ 94A 500-600 VAC N2
PFVP	EVCP120D2IP00	AccuSine PFV+ 120A 208-240V IP00
PFVP	EVCP120D2IP31	AccuSine PFV+ 120A 208-240V IP31
PFVP	EVCP120D2IP54	AccuSine PFV+ 120A 208-240V IP54
PFVP	EVCP120D2N12	AccuSine PFV+ 120A 208-240V N12
PFVP	EVCP120D2N2	AccuSine PFV+ 120A 208-240V N2
PFVP	EVCP120D5IP00	AccuSine PFV+ 120A 380-480 VAC IP00
PFVP	EVCP120D5IP31	AccuSine PFV+ 120A 380-480 VAC IP31
PFVP	EVCP120D5IP54	AccuSine PFV+ 120A 380-480 VAC IP54
PFVP	EVCP120D5N12	AccuSine PFV+ 120A 380-480 VAC N12
PFVP	EVCP120D5N2	AccuSine PFV+ 120A 380-480 VAC N2
PFVP	EVCP133D7IP31	AccuSine PFV+ 133A 600-690 VAC IP31
PFVP	EVCP133D7IP54	AccuSine PFV+ 133A,600-690 VAC IP54
PFVP	EVCP133D7N12	AccuSine PFV+ 133A 600-690 VAC N12
PFVP	EVCP133D7N2	AccuSine PFV+ 133A 600-690 VAC N2
PFVP	EVCP157D6IP31	AccuSine PFV+ 157A 500-600 VAC IP31
PFVP	EVCP157D6IP54	AccuSine PFV+ 157A 500-600 VAC IP54
PFVP	EVCP157D6N12	AccuSine PFV+ 157A 500-600 VAC N12
PFVP	EVCP157D6N2	AccuSine PFV+ 157A 500-600 VAC N2
PFVP	EVCP200D2IP00	AccuSine PFV+ 200A 208-240V IP00
PFVP	EVCP200D2IP31	AccuSine PFV+ 200A 208-240V IP31
PFVP	EVCP200D2IP54	AccuSine PFV+ 200A 208-240V IP54
PFVP	EVCP200D2N1	AccuSine PFV+ 200A 208-240V N1
PFVP	EVCP200D2N12	AccuSine PFV+ 200A 208-240V N12
PFVP	EVCP200D2N2	AccuSine PFV+ 200A 208-240V N2
PFVP	EVCP200D5IP00	AccuSine PFV+ 200A 380-480 VAC IP00
PFVP	EVCP200D5IP31	AccuSine PFV+ 200A 380-480 VAC IP31
PFVP	EVCP200D5IP54	AccuSine PFV+ 200A 380-480 VAC IP54
PFVP	EVCP200D5N1	AccuSine PFV+ 200A 380-480 VAC N1
PFVP	EVCP200D5N12	AccuSine PFV+ 200A 380-480 VAC N12
PFVP	EVCP200D5N2	AccuSine PFV+ 200A 380-480 VAC N2
PFVP	EVCP200D7IP31	AccuSine PFV+ 200A 600-690 VAC IP31
PFVP	EVCP200D7IP54	AccuSine PFV+ 200A,600-690 VAC IP54
PFVP	EVCP200D7N12	AccuSine PFV+ 200A,600-690 VAC N12
PFVP	EVCP200D7N2	AccuSine PFV+ 200A 600-690 VAC N2
PFVP	EVCP235D6IP31	AccuSine PFV+ 235A, 500-600 VAC IP31
PFVP	EVCP235D6IP54	AccuSine PFV+ 235A 500-600 VAC IP54
PFVP	EVCP235D6N12	AccuSine PFV+ 235A 500-600 VAC N12
PFVP	EVCP235D6N2	AccuSine PFV+ 235A 500-600 VAC N2
PFVP	EVCP300D2IP00	AccuSine PFV+ 300A 208-240V IP00
PFVP	EVCP300D2IP31	AccuSine PFV+ 300A 208-240V IP31
PFVP	EVCP300D2IP54	AccuSine PFV+ 300A 208-240V IP54
PFVP	EVCP300D2N1	AccuSine PFV+ 300A 208-240V N1
PFVP	EVCP300D2N12	AccuSine PFV+ 300A 208-240V N12

Product Range	Commercial Reference	Description
PFVP	EVCP300D2N2	AccuSine PFV+ 300A 208-240V N2
PFVP	EVCP300D5IP00	AccuSine PFV+ 300A 380-480 VAC IP00
PFVP	EVCP300D5IP31	AccuSine PFV+ 300A 380-480 VAC IP31
PFVP	EVCP300D5IP54	AccuSine PFV+ 300A 380-480 VAC IP54
PFVP	EVCP300D5N1	AccuSine PFV+ 300A 380-480V N1
PFVP	EVCP300D5N12	AccuSine PFV+ 300A 380-480 VAC N12
PFVP	EVCP300D5N2	AccuSine PFV+ 300A 380-480 VAC N2

Active Harmonic Filter PCSn

Active Harmonic Filters (AHF) are static power electronic products. AHF employ digital logic and IGBT semiconductors to synthesize a current waveform that is injected into the electrical network to cancel harmonic currents caused by nonlinear loads. AHF employ current transformers to measure the load current to determine the content of harmonic current present. By injecting the synthesized current, network harmonic currents are greatly mitigated. Thus reducing the heating effects of harmonic current and reducing voltage distortion.

AHF also have the ability to correct for poor Displacement Power Factor (DPF) and for mains current balancing. DPF correction can be provided for either leading (capacitive) or lagging (inductive) loads that cause poor DPF. Mains current balancing is achieved by measuring the negative and zero sequence current present and injecting the inverse of those currents to balance the current for the upstream network.

AccuSine PCSn can be powered by three phase conductors to provide corrective current for Line-to-Line connected loads or by three phase conductors and neutral to provide correction for Line-to-Line and Line-to-Neutral connected loads. The amount of correction can be selected to provide neutral current for up to three times the phase current correction. The neutral wiring must be sized appropriately based on the selected neutral current correction.

AccuSine PCSn can be either a main unit or an expansion unit. A minimum of one main unit is required per system. A main unit is easily identified as it is equipped with a HMI. The HMI permits viewing and changing parameter settings of complete system or any other unit in the parallel system. The unit has a means for connecting CT secondary wiring. Expansion units are also available to allow operating a system in parallel for additional capacity. Adding an expansion unit to a system only requires the connection of power cabling and a paralleling cable (shielded Cat 5e or greater).

Product Range	Commercial Reference	Description
PCSn	PCSN020Y4CH00	AccuSine PCSn 20A 208-415V ph+N CH IP00
PCSn	PCSN020Y4N1	AccuSine PCSn 20A 208-415V ph+N Type 1
PCSn	PCSN020Y4W20	AccuSine PCSn 20A 208-415V ph+N WM IP20
PCSn	PCSN030Y4CH00	AccuSine PCSn 30A 208-415V ph+N CH IP00
PCSn	PCSN030Y4R19	AccuSine PCSN 30A 208-415V ph+N rack mod
PCSn	PCSN030Y4N1	AccuSine PCSn 30A 208-415V ph+N Type 1
PCSn	PCSN030Y4W20	AccuSine PCSn 30A 208-415V ph+N WM IP20
PCSn	PCSN050Y4CH00	AccuSine PCSn 50A 208-415V ph+N CH IP00
PCSn	PCSN050Y4N1	AccuSine PCSn 50A 208-415V ph+N Type 1
PCSn	PCSN050Y4W20	AccuSine PCSn 50A 208-415V ph+N WM IP20
PCSn	PCSN060Y4CH00	AccuSine PCSn 60A 208-415V ph+N CH IP00
PCSn	PCSN060Y4CH00E	AccuSine PCSn 60A 208-415V ph+N CH IP00x

Product Range	Commercial Reference	Description
PCSn	PCSN060Y4R19	AccuSine PCSN 60A 208-415V ph+N rack mod
PCSn	PCSN060Y4R19E	AccuSine PCSN 60A 208-415V ph+N rack mod
PCSn	PCSN060Y4N1	AccuSine PCSn 60A 208-415V ph+N Type 1
PCSn	PCSN060Y4N1E	AccuSine PCSn 60A 208-415V ph+N Type 1x
PCSn	PCSN060Y4W20	AccuSine PCSn 60A 208-415V ph+N WM IP20
PCSn	PCSN060Y4W20E	AccuSine PCSn 60A 208-415V ph+N WM IP20x

Firmware Release History

HMI firmware release history

Date	Firmware version	Availability
March 31, 2026	003.002.000	Latest commercial release
March 8, 2026	003.001.001	Obsolete
April 25, 2025	003.001.000	Obsolete
June 25, 2024	003.000.002	Obsolete
October 18, 2023	003.000.001	Obsolete
March 24, 2023	003.000.000	Obsolete

Main DSP and Protection DSP firmware release history

Date	Firmware version	Availability
March 31, 2026	003.002.000	Latest commercial release
April 25, 2025	003.001.000	Obsolete
June 25, 2024	003.000.002	Obsolete
October 18, 2023	003.000.001	Obsolete
March 24, 2023	003.000.000	Obsolete

Firmware Update Policy

Firmware update is recommended to benefit from the latest features and potential bug fixes, and to ensure that remote support from Schneider Electric Customer Care Center is available. When the remote certificate for your firmware version is no longer valid, remote support is no longer available.

Latest Firmware Version 003.002.000

HMI 003.002.000:

- New features:
 - The latest firmware enables seamless transition between Utility and Generator power sources without affecting AccuSine performance.

Main DSP 003.002.000, Protection DSP 003.002.000:

- New features:
 - The latest firmware enables seamless transition between Utility and Generator power sources without affecting AccuSine performance.

Firmware Upgrade

Scope and Prerequisites

Supported Devices

This procedure applies to the following:

- AccuSine PCSP Active Harmonic Filter
- AccuSine PFVP Electronic VAR Control
- AccuSine PCSn Active Harmonic Filter

Purpose of the Firmware Upgrade

Use this procedure to update the unit firmware to the latest supported version. One known reason to update is to correct the HMI clock year display (a non-critical issue that does not affect performance).

Prerequisites

- A Windows 7 or later PC with internet access.
- USB-A and USB-B cables (≥ 2 m).



- A FAT32-formatted USB flash drive (Capacity: > 50 MB and < 4 GB)
 - Format the drive as FAT32 (Quick Format).
 - Copy all files from the HMI update package to the root directory.
- Active filter update tool file.
- Latest HMI update file for AccuSine PCSP, PFVP & PCSn⁽¹⁾
- For a PCSP or PFVP unit, a non-contact voltage detector or digital voltmeter (required for enclosed IP31 or IP54 units).

System Downtime and Impact

NOTE: Shut down the active filter system to complete the upgrade. If the system is production-critical, schedule the upgrade during preventive maintenance when the corrected loads are shut down.

- Configuration retention: Commissioning and other parameter changes are retained, except the ADMIN password. After the upgrade, the ADMIN password resets to a new default (case-sensitive). Sign in and change the password immediately.
- Network impact (Static IP): If the unit uses a Static IP for Modbus TCP/IP, the setting is cleared during the upgrade. Record the IP address, subnet mask, and default gateway before you start, and re-enter them after the upgrade using the HMI network settings. For more information, refer to [Appendix A: Obtain Static IP Address](#), page 36 and [Appendix B: Enter Static IP Address](#), page 38.

⁽¹⁾ Download the latest HMI update file for AccuSine PCSP, PFVP & PCSn from www.se.com.

- Parallel systems: For parallel systems, shut down the entire system before you start. Temporary version-mismatch messages can appear while units are upgrades. They clear after all units are updated and the system restarts.

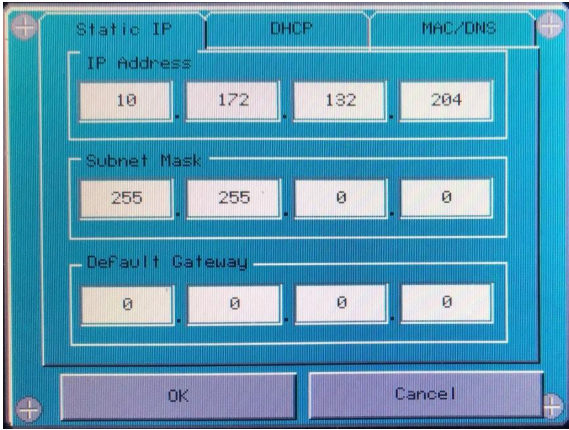
Pre-upgrade Checks

Record Current Firmware Versions

On the HMI, go to **Home > Unit Status > Unit Configuration** screen and record the HMI Version, Control DSP Version, and Protection DSP Version.

Back Up Communication Settings (Static IP)

If the unit uses a Static IP for Modbus TCP/IP, back up the current values in **Unit Settings > Display Settings > Advanced HMI Settings > Offline > Network > Static IP** (IP, Subnet, Gateway).



For more information, refer to Appendix A: Obtain Static IP Address, page 36.

Prepare for Administrator Login

Use **ADMIN** credentials to stop the system, enable the USB service port, and access network settings. After the upgrade, the **ADMIN password** changes to a new default; plan to update it.

Shut Down the System

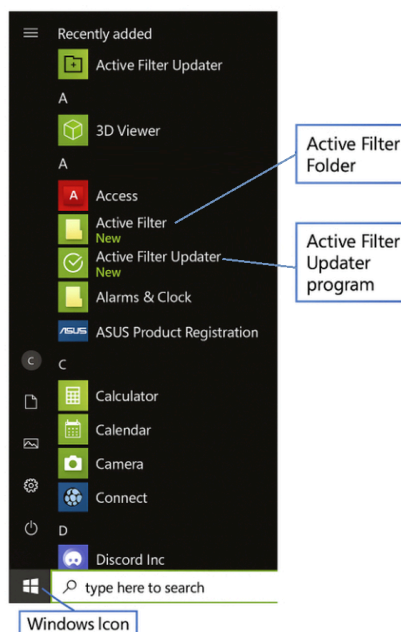
From the HMI Home screen, stop the system before you proceed. For a parallel system, stop the **entire system**.

Prepare Files and Tools

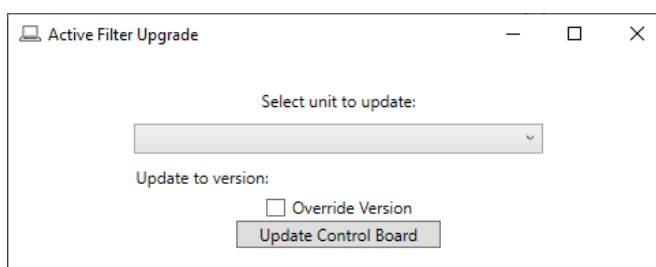
Install the Active Filter Updater Program

Prerequisite: Verify that the computer has internet access. If the internet access is not available, contact the local Schneider Electric representative for an alternate means to obtain the files.

1. Open the **Active Filter Update Tool** folder on the PC.
2. Run **Install.bat** and follow the prompts (Next → Install).
3. Allow the program to make changes when Windows prompts for permission.
4. Confirm **Active Filter Updater** appears in the Start menu and open it.

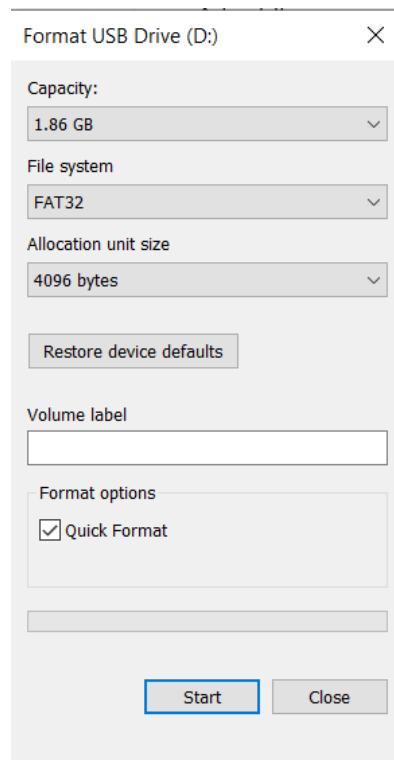
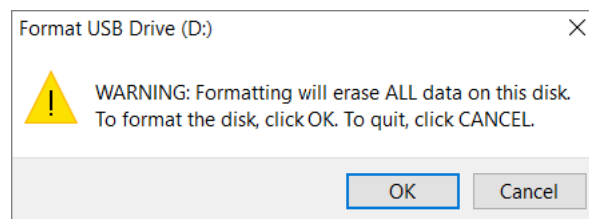


TIP: The **Select unit to update** list remains blank until a unit is connected and its USB service port is enabled.



Load HMI Update Program onto USB Flash Drive

1. Verify that the correct HMI file is used for the unit.
 - For **PCSP** or **PFVP**, verify that the HMI file uses the prefix **HMI_PCSP**.
 - For **PCSn**, verify that the HMI file uses the prefix **HMI_PCSN**.
2. Unzip the extension file.
3. Insert the USB flash drive into the computer.
4. In File Explorer, right-click the USB drive letter .
5. Click **Format**.
6. From the popup window, select **FAT32** under **File system** option.
7. Check the **Quick Format** box under **Format options**.

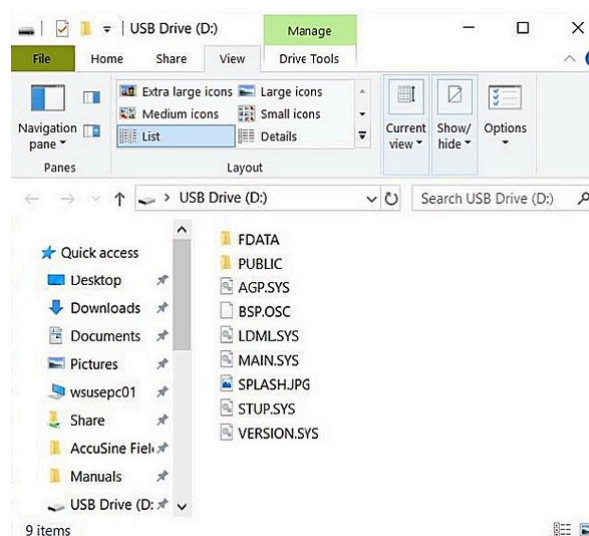
8. Click **Start**.9. A warning message pops up to prompt current operation. Click **OK** to proceed.

10. Open USB drive directory from File Manager.

11. Copy all the files from the HMI update package to the root directory of the flash drive.

NOTE: Do not place files in a folder.

The following figure shows the folders in USB flash drive.



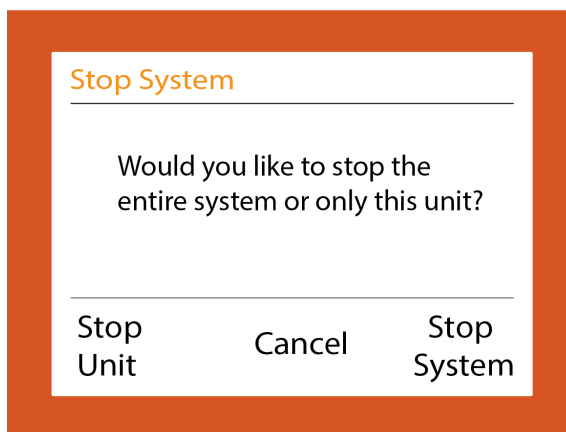
Connect and Update the AccuSine Unit

Enable Service Port

1. Press **Stop System** icon if there is a running sine wave displayed on the bottom left of the HMI screen.



2. If the unit is part of a parallel system, press **Stop System**.

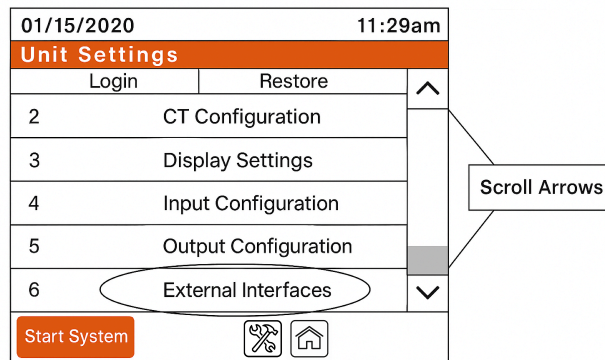


3. From the **Unit Settings** screen, select **Login**.
4. Enter the following User name and password, press **Log In**.
 - User name: ADMIN
 - Password: ADMIN

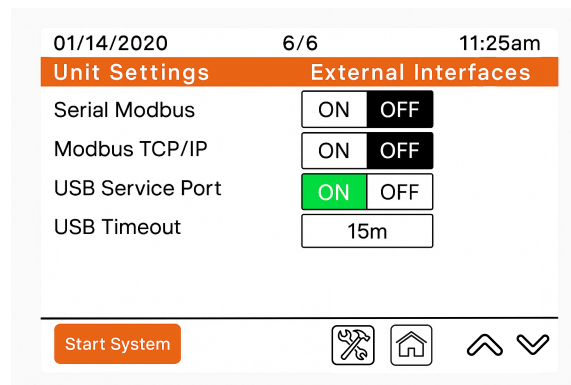
The User Login screen displays "Current user: ADMIN".

5. Press the Home icon  at the bottom right of the screen.
6. On the Home screen, press **Unit Settings**.

7. Scroll to the bottom of the screen and select **6 External Interfaces**.



8. Turn on **USB Service Port**.



If the Modbus TCP/IP is already ON with a green background, refer to Appendix A: Obtain Static IP Address, page 36 section before continuing with this procedure.

9. Perform the following step based on the product type:

- For **PCSP** or **PFVP**:

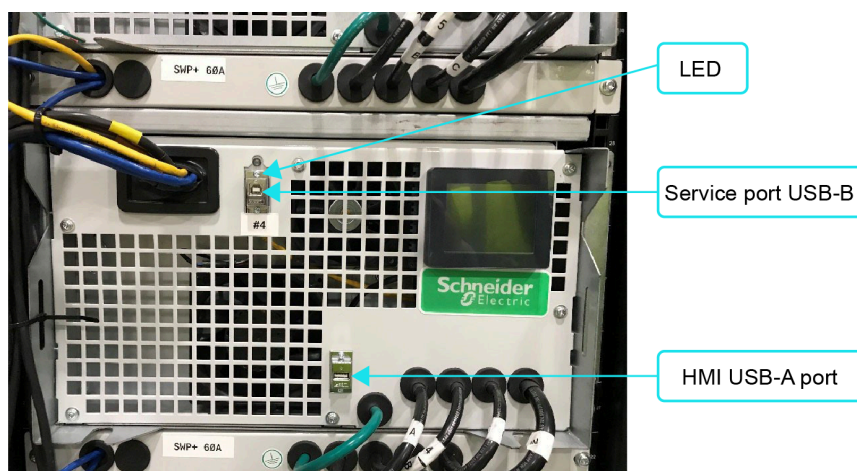
Plug the end of the USB-A cable into the laptop with the Active Filter Upgrade program installed.

NOTE: Connect the USB cable from the computer to the Service Port within 15 minutes after turning on the USB Service Port. If the connection is not made within this period, sign in to the unit as **ADMIN** and turn on the USB Service Port again.

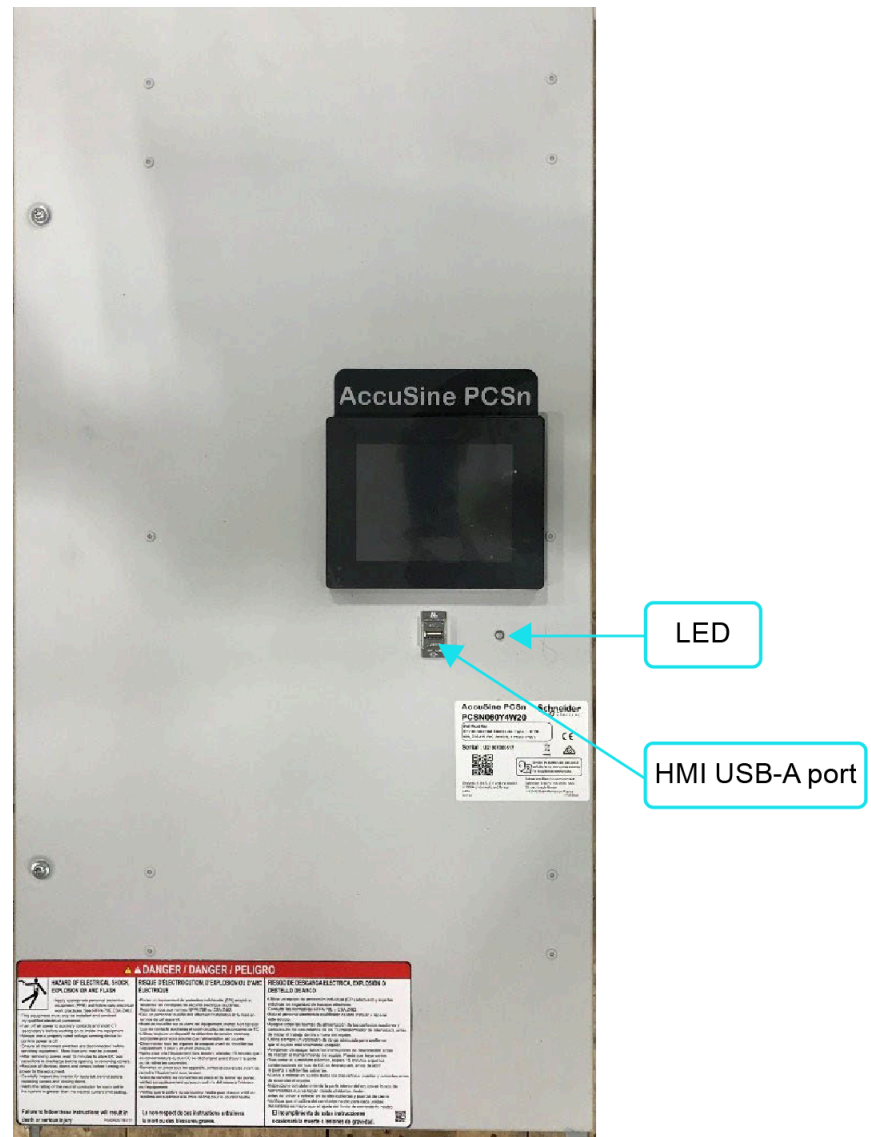
This completes the procedures of the **PCSP** and **PFVP** units.

- For **PCSn**, continue with the following procedures:

Plug the end of the USB-B cable into the service port and connect the USB-A cable to the computer with Active Filter Upgrade program installed.

PCSn rack mount front view**PCSn wall mount bottom view**

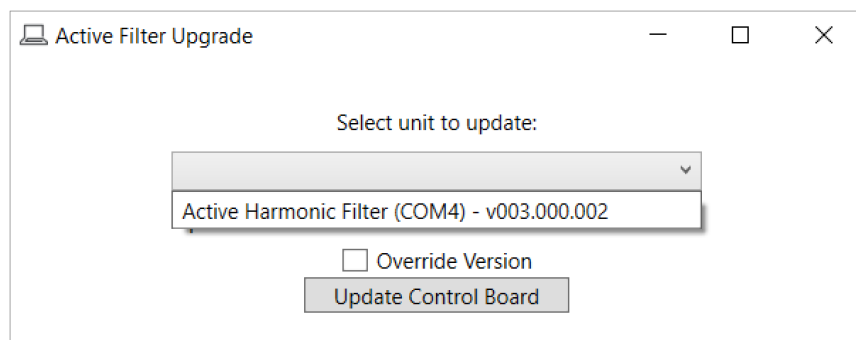
PCSn wall mount front view



10. Open the Active Filter Upgrade program on the computer if it is not running.

The Active Filter Upgrade program should display the active filter, and the operating system assigns a COM number automatically.

NOTE: If the Active Filter Upgrade program does not display **Active Harmonic Filter (COM*)**, verify the USB connections and confirm that the **USB Service Port** is still **ON** in **Unit Settings > External Interface**. If the issue continues, try using a different USB cable.

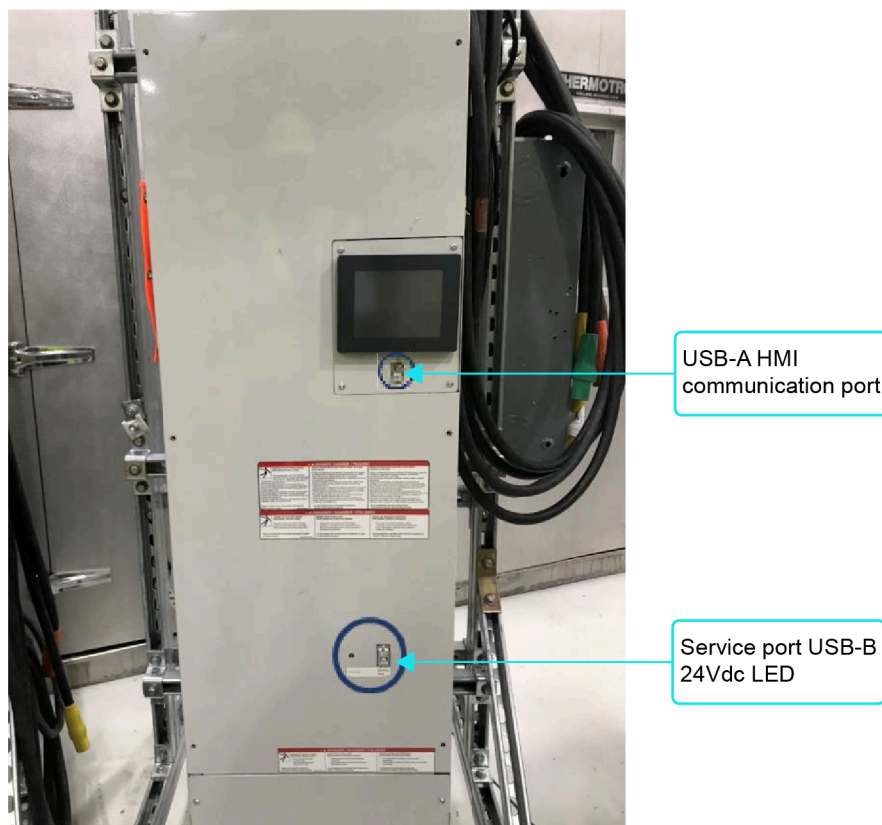


Connect USB Cable to the Service Port (Only for PCSP or PFVP)

AccuSine PCSP, PFVP and W-01 Wall Mounted Units

AccuSine PCSP or PFVP IP20 wall mounted unit has the USB service port access from the front panel. Plug the end of the USB-B cable into the service port on the bottom front of the unit.

It is not necessary to de-energize the unit during connection. Continue with Update Control Board Firmware, page 27 section of this document.



AccuSine Enclosed IP31 and IP54 Unit

⚠ DANGER

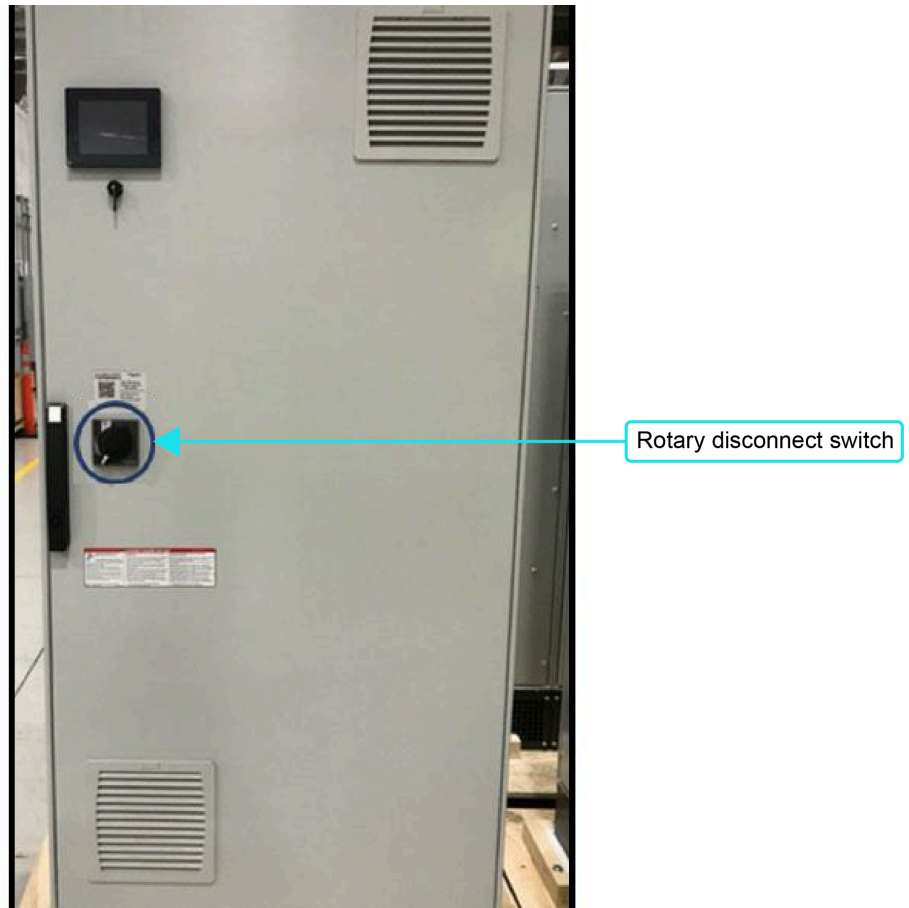
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E in the USA, CSA Z462, or applicable local standards.
- This equipment must be installed and serviced only by qualified electrical personnel.
- Do not exceed the device's ratings for maximum limits.

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

1. Position the PC with Active Filter Update program near the unit and prepare the USB cable.

2. Turn off the rotary disconnect switch.

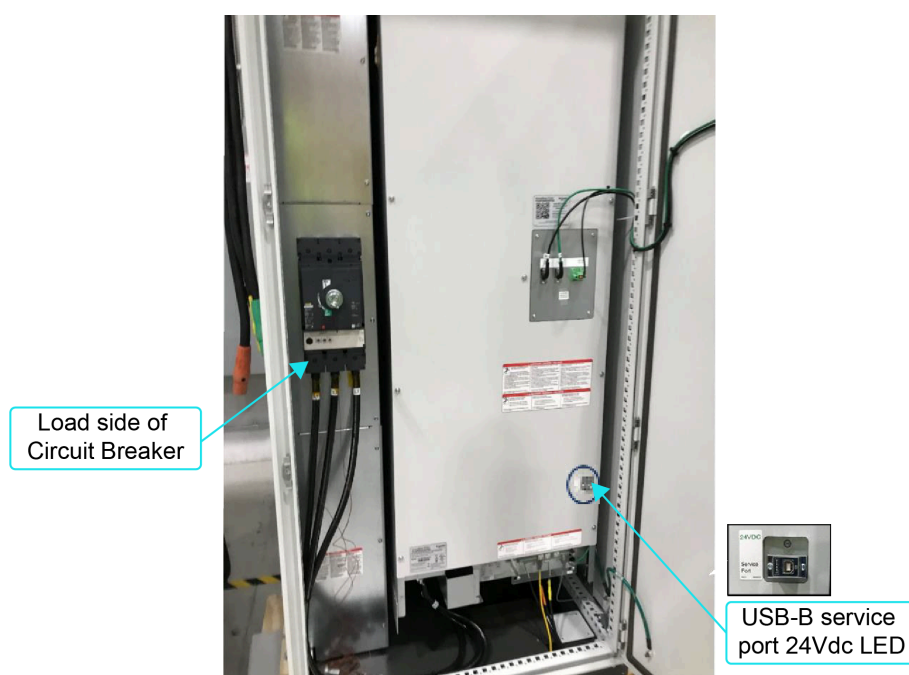


NOTE: Once the rotary disconnect switch is in the off position, connect the USB cable between the computer and the service terminal before the 24 Vdc LED turns off.

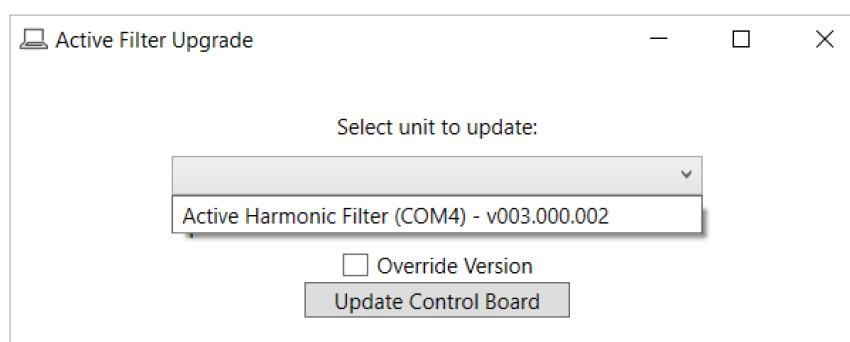
- Units connected at 400 volts or > 24 Vdc, the LED goes OFF in approximately 5 minutes.
- Units connected at 208 volts or > 24 Vdc, the LED goes OFF in approximately 30 seconds.

3. Verify that the load side of the circuit breaker is de-energized by using a non-contact voltage detector or a digital voltmeter.

NOTE: For units connected to 208 - 240 Vac, it is recommended to use a non-contact voltage detector.



4. Plug the end of the USB-B cable into the service port and connect the USB-A cable to the computer with Active Filter Upgrade program installed.
5. When the Active Filter Upgrade program starts, it should detect the active filter and the operating system should assign a COM port number.



If the selected Unit Update field does not display the active filter, the delay between de-energizing the unit and connecting the USB cable might have been too long. If the 24 Vdc LED turns off before you connect the USB cable, disconnect the USB cable, close the unit door, energize the unit, and repeat the procedure.

Update Control Board for PCSn Expansion Units

AccuSine PCSn Expansion units are units that do not include an HMI on the front panel.

When the system operates in parallel with more than one unit, you can sign in to an Expansion unit by using the **ADMIN** password through the HMI of the main unit (the unit that includes an HMI).

After you update the unit, the **ADMIN** password is set to the new password: **3w7ADMN**.

1. On Home screen, select **Unit Settings**.

2. Select the **Display: Local Unit** at the bottom center of the screen.

01/22/2020 6/6 12:53pm

Unit Settings **External Interfaces**





Serial Modbus ☐ ON ☒ OFF

Modbus TCP/IP ☐ ON ☒ OFF

USB Service Port ☒ ON ☐ OFF

USB Timeout 15m

Reset TCP/IP Communications

Start System **Display: Local Unit**    

3. Select the unit number.

01/22/2020 6/6 12:59pm

Unit Settings **External Interfaces**

Select Remote Unit ID to display

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

Local Unit OK

NOTE: To determine the unit number, go to **System Status > Parallel Unit Status**.

4. Select the unit number that you want to identify.




The unit number flashes yellow and orange on the screen. The LED on the front of that unit flashes to indicate that it is the corresponding unit.

01/22/2020 6/6 1:18pm

System Status **Parallel Unit Status**

Unit 1 Stopped	Unit 2 Stopped	Unit 3 Offline	Unit 4 Offline	Unit 5 Offline
Unit 6 Offline	Unit 7 Offline	Unit 8 Offline	Unit 9 Offline	Unit 10 Offline
Unit 11 Offline	Unit 12 Offline	Unit 13 Offline	Unit 14 Offline	Unit 15 Offline
Unit 16 Offline	Unit 17 Offline	Unit 18 Offline	Unit 19 Offline	Unit 20 Offline
Unit 21 Offline	Unit 22 Offline	Unit 23 Offline	Unit 24 Offline	Unit 25 Offline

Synchronize System Settings...

Start System   

The **External Interfaces** screen on **Unit Settings** displays the unit under control.

5. Turn on the **USB Service Port**.

01/22/2020 6/6 12:53pm

Unit Settings **External Interfaces**

Serial Modbus	ON	OFF
Modbus TCP/IP	ON	OFF
USB Service Port	ON	OFF
USB Timeout	15m	

Reset TCP/IP Communications

Start System Display: Unit 2

6. Plug the USB-B end of the USB cable into the service port.

The Active Filter Upgrade program should now display the active filter, and the operating system assigns a COM number.

Active Filter Upgrade

Select unit to update:

Active Harmonic Filter (COM4) - v003.000.002

☐ Override Version

Update Control Board

Update Control Board Firmware

1. In the Active Filter Upgrade screen, select **Active Harmonic Filter** from the drop-down list.

Active Filter Upgrade

Select unit to update:

Active Harmonic Filter (COM4) - v003.000.002

☐ Override Version

Update Control Board

2. Click **Update Control Board**. After the process is complete, a message appears to indicate that the application updated successfully.

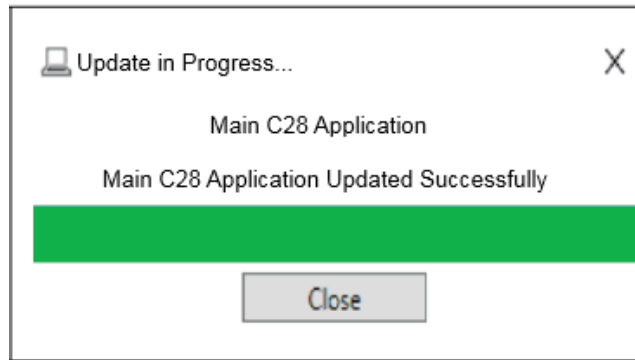
Update in Progress...

Main C28 Application

Writing Firmware 49% Complete

Cancel

3. Click **Close**.



If the process fails:

- a. Unplug the computer from the service port.
- b. De-energize the unit.
- c. Wait for the 24 Vdc LED to turn off.
- d. Close the door, re-energize the unit for the enclosed units.
- e. Repeat the procedure described in the section [Enable Service Port](#), page 19.

For PCSn, this completes the procedures.

For PCSP or PFVP, continue with the following procedures.

4. Unplug the USB cable from the service port.
5. Energize the unit if it is in de-energize state.

After closing, the HMI shows a message indicating that the control board is initializing. The message clears when initialization is complete.

The HMI shows a firmware version mismatch until you update the HMI.

In parallel systems, the HMI shows a "Parallel System Version Mismatch" message. This is expected until all units in the system have been updated. The message clears after every unit is successfully updated.

Update Human Machine Interface (Only for PCSP or PFVP)

1. Insert the flash drive into the USB A port of the HMI.

Wall mounted HMI USB-A location



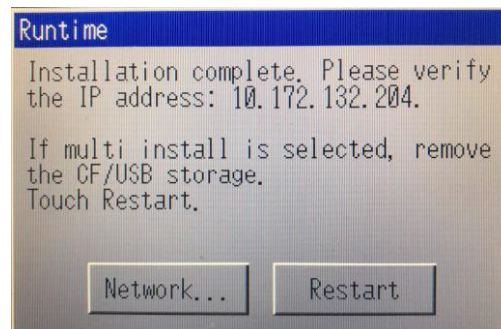
Enclosed unit HMI USB-A location

The HMI displays a message to confirm if you want to install the software.

2. Press **Yes**.

The HMI reboots and installs the software.

When the installation is complete, the HMI displays **Network** and **Restart** options.



3. Remove the USB flash drive.
4. Press **Restart**.

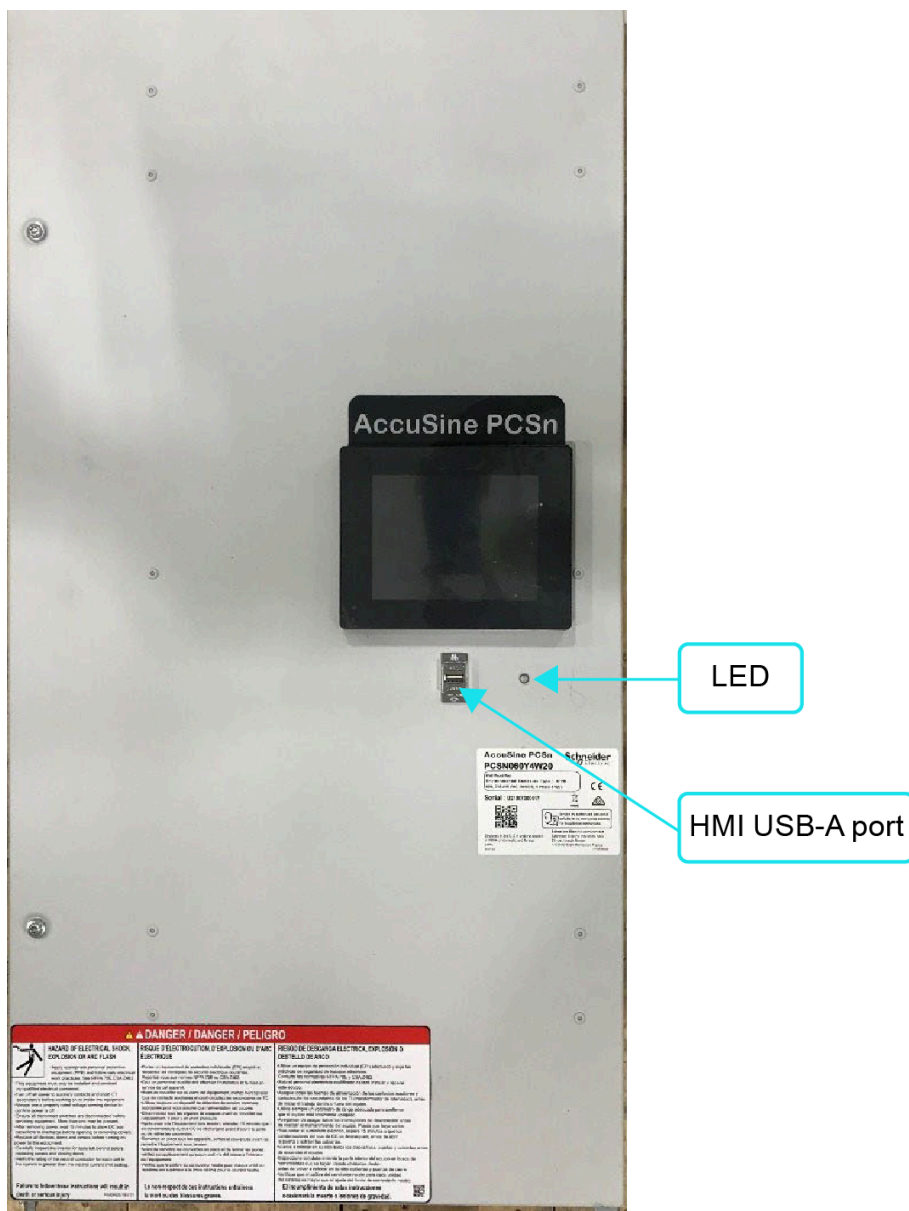
Update Human Machine Interface (Only for PCSn)

1. Insert the flash drive into the USB A port of the HMI.

PCSn rack mount unit



PCSn wall mount front view

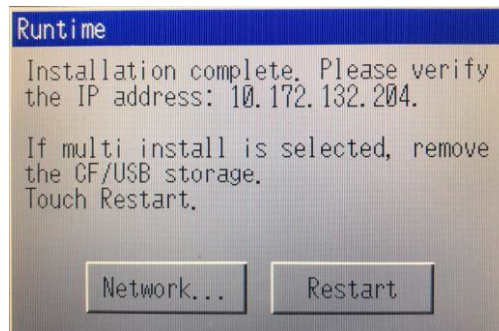


The HMI displays a message to confirm if you want to install the software.

2. Press **Yes**.

The HMI reboots and installs the software.

When the installation is complete, the HMI displays **Network** and **Restart** options.



3. Remove the USB flash drive.

4. Press **Restart**.

Verify Updates

1. Go to **Unit Status > Unit Configuration** and verify that the update is complete.
2. Verify that the HMI version matches the installed version.
3. Verify that the Control DSP version matches the installed version.

07/17/2024

2/4

4:12pm

Unit Status

Unit Configuration

HMI Version:

003.000.001

Control DSP Version:

003.000.002

Protection DSP Version:

003.000.002

Network Setup

IP

10.172.132.204

Subnet

255.255.0.00

Unit Setup:

Unit Type

AHF

3-Wire

Unit Size

300A

400V

60Hz

CT Conn.

None

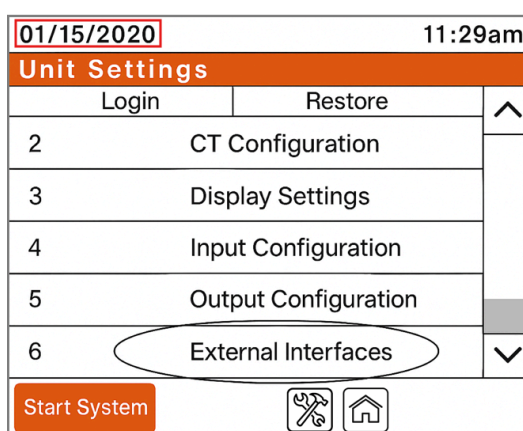
Start System

4. Verify that the date and time display correct on the Home screen.



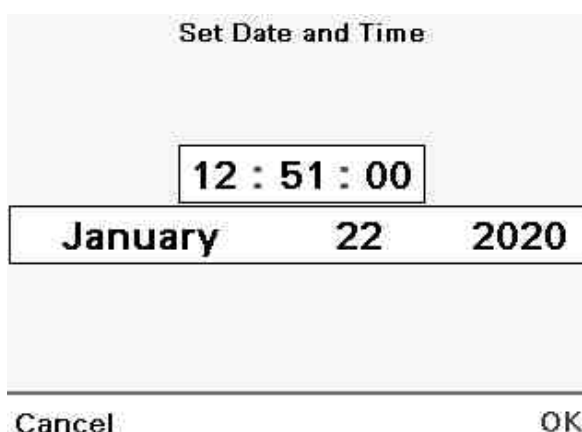
If incorrect, follow these steps:

- Go to **Unit Settings** page.
- Press on the date at the top left corner of the HMI screen.



Set Data and Time screen displays.

- Set the date and time values by pressing on hours, minutes, month, date, and year on the screen.



After the unit is updated, the ADMIN password is reset to the new default password: **3w7ADMN**. This password is case-sensitive. To log in to the HMI (Human Machine Interface), refer to the updated version of the User Manual.

If the unit uses a static IP address for Modbus communication, verify that the unit is communicating with the facility Modbus system.

For instructions, see Appendix B: Enter Static IP Address, page 38.

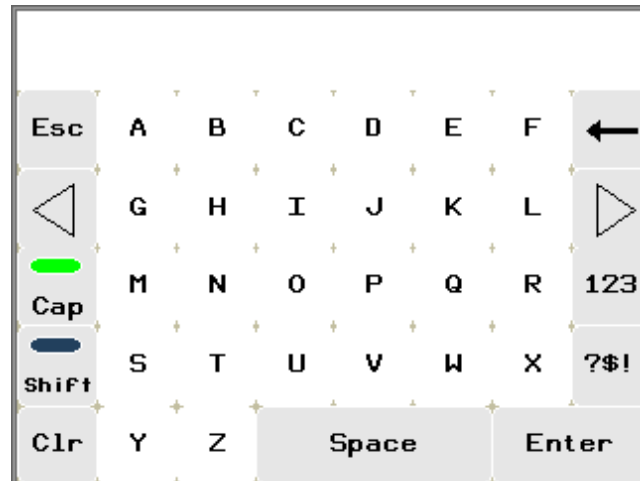
The **PCSn** unit completes at this step.

5. If there is single unit, click **Start System** on the Home page screen.

6. When the unit is part of a parallel system, update the remaining units by using the same procedure. After all units in the parallel system have been updated, click **Start System**.
7. Except for the TCP/IP static IP address, all customization and commissioning settings required for the unit are retained after the update.

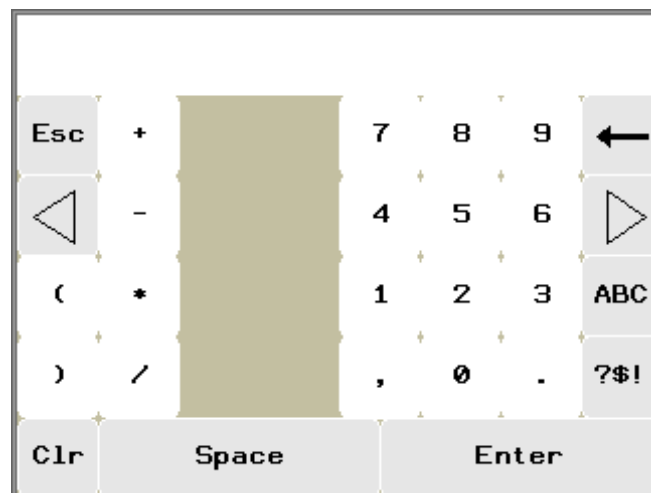
Verify on Screen Keyboard (only for PCSn)

To enable Caps Lock function, press **Cap** icon. A green oval indicator above the **Cap** icon indicates that the Cap Lock function is enabled. To disable Caps Lock function, press **Cap** to change indicator to blue.



Press **Shift** icon to enable shift which will change the case of the next letter entered. A green oval indicator above the **Shift** icon indicates that the shift function is enabled.

Press icon **123** to display number keyboard. Press **ABC** on number keyboard to return to letter keyboard.



Troubleshooting

Problem	Solution
After inserting the USB flash drive into the HMI USB-A port, the HMI does not display the updated screen.	Verify that all HMI update files are located in the root directory of the USB flash drive. Files must not be placed inside folders.
Missing screens or unexpected events appear after updating the HMI.	Reinsert the USB flash drive that contains the HMI update files, and run the update again.
A version-mismatch warning appears after updating the HMI.	Verify that you are using the correct HMI update file for the specific product range (AccuSine PCSP, PFVP & PCSn).

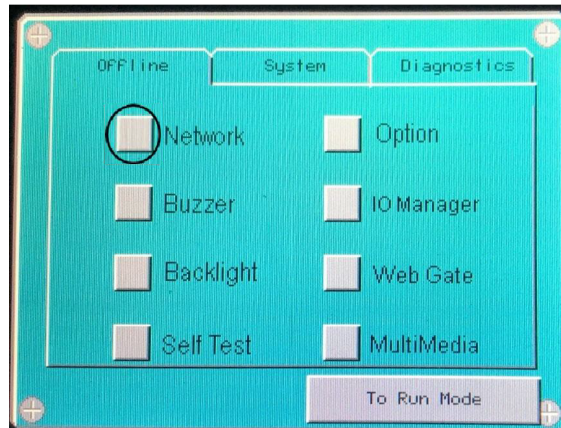
Appendices

Appendix A: Obtain Static IP Address

If the unit is configured to communicate over Modbus TCP/IP using a static IP address, perform the following steps:

NOTE: This procedure does not apply if the unit does not use Modbus or if it is configured to use a DHCP-assigned IP address.

1. From **Unit Settings > Display Settings > Advanced HMI Settings > Offline** tab, select the check box of **Network**.



A dialog box appears with the message: “**Working with offline settings will stop the user application and runtime. Continue?**”

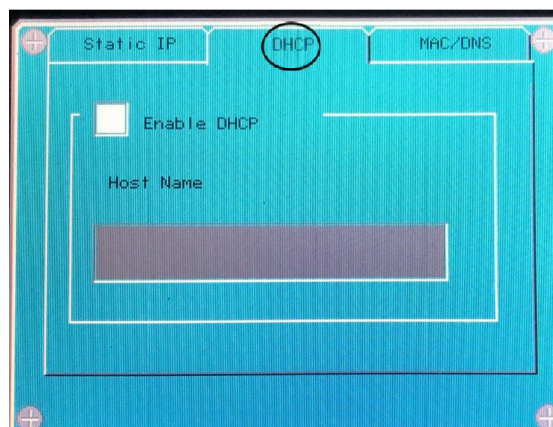
2. Select **OK**.

The HMI restarts.

3. After the HMI restarts, select the **DHCP** tab and verify that the **DHCP** check box is not selected.

NOTE: Do not perform this procedure if the DHCP tab is not selected.

- If **Enable DHCP** is selected, go to the **Static IP** tab, select **Cancel**, and then select **To Run Mode**. The HMI reboots and returns to the Home screen.
- If **Enable DHCP** is not selected, continue with this procedure.



4. Select **Static IP** tab.

5. Record the values for **IP Address**, **Subnet Mask**, and **Default Gateway**. These values are required for the unit to communicate over Modbus TCP/IP using a static IP address.

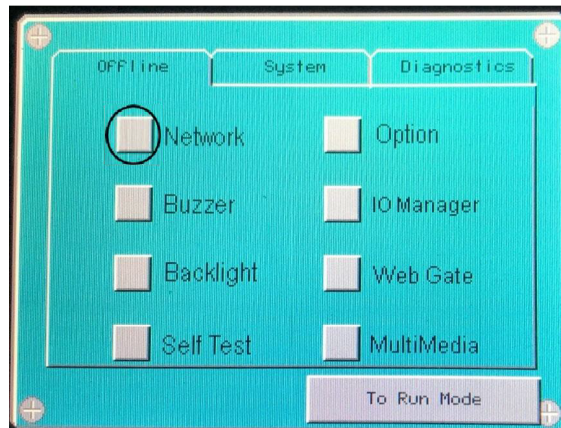
The image shows a configuration window for network settings. It has three tabs at the top: 'Static IP', 'DHCP', and 'MAC/DNS'. The 'Static IP' tab is active. Below the tabs, there are three groups of input fields. The first group is labeled 'IP Address' and contains four fields with the values 10, 172, 132, and 204. The second group is labeled 'Subnet Mask' and contains four fields with the values 255, 255, 0, and 0. The third group is labeled 'Default Gateway' and contains four fields with the values 0, 0, 0, and 0. At the bottom of the window are two buttons: 'OK' and 'Cancel'.

6. Select **OK**.
A dialog box displays with the message **“The target is not connected to the network. Reboot the target for settings to take effect.”**
7. Select **Yes**.
8. Select **To Run Mode**.
A dialog box displays with the message **“Shut down and restart to enable settings. Restart Now?”**
9. Select **OK**.
The HMI restarts at the Home screen.
10. Log in again with the user name and password as ADMIN.

Appendix B: Enter Static IP Address

Perform the following procedures to set up the Modbus TCP/IP Static IP address:

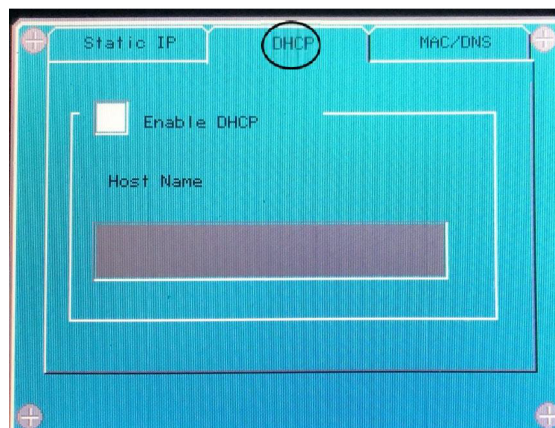
1. From **Unit Settings > Display Settings > Advanced HMI Settings > Offline** tab, select the check box of **Network**.



The HMI restarts for entering network settings.

2. After the HMI restarts, select the **DHCP** tab and ensure that the **Enable DHCP** check box is not selected.

NOTE: The DHCP must be disabled to enter a Static IP address.



3. Select **Static IP** tab.
4. Enter the **IP Address**, **Subnet Mask**, and **Default Gateway** values that you recorded earlier in the previous procedure.
5. Select **OK**.
6. Select **To run mode**.

Previous Firmware Versions

Firmware Version 003.001.001

HMI 003.001.001:

- Enhancements:
 - HMI develop environment update from 6.2 to 6.3 SP1, so it can be used for HMI hardware version 8.1 and above.

Firmware Version 003.001.000

HMI 003.001.000:

- New features:
 - Added a new status to indicate whether communication between the CB and the HMI is operating normally. The status is sent through the Modbus TCP link.
- Bug fixes:
 - Fixed an issue where the Control DSP version reported through the HMI Modbus TCP link was incorrect.

Main DSP 003.001.000, Protection DSP 003.001.000:

- New features:
 - Added unit_rating_type for Infineon IGBT 300A and temperature protection for Infineon IGBT 60A.
- Bug fixes:
 - Fixed incorrect filter rms calc for 50Hz
 - Updated timing control to help make sure T1 opens ahead of T4 to help reduce gate-driver interference.
 - Added minimal pulse suppression, aiming to improve efficiency by avoiding frequent tiny pulse disturbance.

Firmware Version 003.000.002

Main DSP 003.000.002, Protection DSP 003.000.002:

- New features:
 - Add new fault "parallel communication cable".
- Bug fixes:
 - Corrected power save on function did not work normally in PCSP when Harmonic Mode was enabled.
 - Corrected rotation function did not operate normally in PCSP.
 - Corrected the external Modbus information display for "fan failure".
 - Fixed the compangle for negative sequence voltage operation, which was previously set incorrectly, by updating the value to -0.0028.
 - Set the fundamental zero-sequence current command to zero when an infinity command is detected on the master.
 - Set the fundamental zero-sequence current command to zero when an infinity command is detected on the slave.
 - Set the harmonic current command to zero when an infinity command is detected, and set the fundamental current command to zero when a command greater than $1.25 \times$ unit rating is detected on the slave.
 - Enabled harmonic compensation only when the harmonic setting is enabled and the **Auto Off** parameter is set to false.

Firmware Version 003.000.001

HMI 003.000.001:

- New features:
 - Added new fault display "parallel communication cable".

Main DSP 003.000.001, Protection DSP 003.000.001:

- New features:
 - Adds notification and event logging for thermal delta derating.
- Enhancements:
 - Updated current sensor difference check to allow the check to be disabled.
- Bug fixes:
 - Corrected a calculation issue that could cause incorrect compensation after the system ran for an extended period.
 - Corrected several unit output display variables that were shown incorrectly in SIM mode.

Firmware Version 003.000.000

HMI 003.000.000:

- New features:
 - Parallel interoperability between AccuSine PCSP and AccuSine PCSn.
 - Updated Modbus system output values to reflect system output instead of individual unit output.
 - Renamed "Current Sensor Inoperable" event to "Current Sensor Out of Range" to more accurately reflect the condition that triggers the message.
- PCSP Changed from 001.006.007:
 - Updated the PCSP HMI interface to focus on the entire system rather than unit.
 - Updated the Metering pages to display output currents for the entire system instead of individual units.
 - Updated the commissioning flow to include CT configuration and a test run for each unit in the system.
 - Updated the commissioning integrity test to run on the entire system.
 - Updated the Event Log so that events are communicated to all units in the system that are online.
 - Included enhancements to Event Waveform logging to add new information that supports troubleshooting.
 - Added information to the voltages and temperatures screen to help troubleshoot "contractor not closed" messages.
- PCSn Changes from 002.003.000:
 - Introduced mixed-parallel operation between PCSP and PCSn devices.
 - Included enhancements to Event Waveform logging to add new information for troubleshooting.
- Bug fixes:
 - Addressed an issue with the unit Total Run Time when accessed through Modbus TCP/IP.
 - Addressed an incorrect display of waveform date and time when viewing event waveforms from the HMI.
 - Corrected an error in IGBT reset handling after the unit restarted from an event.

Main DSP 003.000.000, Protection DSP 003.000.000:

- New features:
 - Parallel interoperability between AccuSine PCSP and AccuSine PCSn.
 - Added Code Signature for code signing verification in Boot Loader V2.
 - Updated Modbus system output values to reflect system output instead of individual unit output.
 - Renamed “Current Sensor Inoperable” event to “Current Sensor Out of Range” to more accurately reflect the condition that triggers the message.
- PCSP Changes from 001.006.003:
 - Updated the PCSP HMI interface to focus on the entire system rather than unit.
 - Updated the Metering pages to display output currents for the entire system instead of individual units.
 - Updated the commissioning flow to include CT configuration and a test run for each unit in the system.
 - Updated the commissioning integrity test to run on the entire system.
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