

Enerlin'X

FDM121 Front Display Module for One Circuit Breaker

Firmware Release Notes

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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 this 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.

 CAUTION
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 personnel is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

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, controls, and information.
- Disable unused ports/services and default accounts to help minimize pathways for malicious attackers.
- 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, or interruption of services.

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

About the Book

Document Scope

This document provides the firmware version history of FDM121 Ethernet display for one circuit breaker.

Validity Note

This document is valid only for FDM121 Ethernet display for one circuit breaker.

Online Information

The technical characteristics of the devices described in this guide also appear online. To access the information online, go to the [Schneider Electric Country Website](#).

The information contained in this guide is likely to be updated at any time. Schneider Electric strongly recommends that you have the most recent and up-to-date version available on www.se.com/ww/en/download/.

Related Documents

The following table lists the documents that are compatible with a FDM121 display with the latest firmware version:

Title of documentation	Publication date	Reference number
<i>Enerlin'X FDM121 – Front Display Module for One Circuit Breaker – User Guide</i>	03/2023	DOCA0088EN DOCA0088ES DOCA0088FR DOCA0088ZH
<i>ULP System (IEC Standard) – ULP (Universal Logic Plug) System – User Guide</i>	10/2023	DOCA0093EN DOCA0093ES DOCA0093FR DOCA0093ZH
<i>MasterPacT MTZ MTZ2/MTZ3 IEC Switch-Disconnectors and Circuit Breakers with MicroLogic X Control Units from 800 to 6300 A – User Guide</i>	06/2024	DOCA0101EN DOCA0101ES DOCA0101FR DOCA0101ZH
<i>ULP System (UL Standard) – ULP (Universal Logic Plug) System – User Guide</i>	10/2023	0602IB1503 (EN) 0602IB1504 (ES) 0602IB1505 (FR) 0602IB1506 (ZH)

You can download these technical publications and other technical information from our website at www.se.com/ww/en/download/.

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

FDM121 Front Display Module for One Circuit Breaker

The FDM121 display shows the measurements, alarms, and operating assistance data from the Intelligent Modular Unit (IMU). The FDM121 display can control a circuit breaker that is equipped with a motor mechanism or with the pre-defined application performed by the IO module.

The FDM121 display with part number TRV00121 or STRV00121 is compatible with the following ranges of circuit breaker:

- MasterPacT MTZ circuit breakers
- MasterPacT NT/NW circuit breakers
- ComPacT NS circuit breakers
- PowerPacT P- and R-frame circuit breakers
- ComPacT NSX circuit breakers
- PowerPacT H-, J-, and L-Frame circuit breakers

NOTE:

- The information related to the new generation of ComPacT NS and PowerPacT P- and R-frame circuit breakers in this document applies to the existing range ComPacT NS and PowerPacT P- and R-frame circuit breakers also. The exceptions are mentioned wherever applicable.
- The information related to the new generation of ComPacT NSX and PowerPacT H-, J-, and L-Frame circuit breakers in this document applies to the existing range ComPacT NSX and PowerPacT H-, J-, and L-frame circuit breakers also. The exceptions are mentioned wherever applicable.
- These new ranges are based on the same technical and dimensional architecture as that of the existing range of circuit breakers.

Firmware Release History

The following table indicates the availability of each firmware version:

Date	Firmware version	Availability
August 2024	004.000.018	Release for manufacturing
February 2023	004.000.013	Obsolete
February 2022	004.000.011	Obsolete
October 2021	004.000.009	Obsolete
July 2021	003.000.028	Obsolete
December 2020	003.000.025	Obsolete
August 2019	003.000.023	Obsolete
March 2019	003.000.022	Obsolete
June 2018	003.000.016	Obsolete
January 2018	003.000.013	Obsolete

NOTE: FDM121 firmware versions 003.000.013 or greater are compatible with FDM121 hardware with date code WX18141 or greater. Hardware with date code lower than WX18141 cannot be updated with firmware versions 003.000.013 or greater.

Firmware Update Policy

Firmware update is recommended to benefit from the latest features and potential bug fixes. Do not update the firmware to the latest version, if the latest features are not required for your application and no bug fixes are provided.

Use this release note to confirm if an update to the latest version of the FDM121 firmware is relevant to your application.

For more information on the firmware update policy and the firmware compatibility between devices, refer to *MicroLogic Trip and Control Units - Firmware History - DOCA0155EN*.

Firmware Update with EcoStruxure Power Commission Software

Use the latest version of EcoStruxure Power Commission software to:

- Check the firmware compatibility of the devices in the Intelligent Modular Unit (IMU).
- Update the devices with the latest firmware version available.

After updating the firmware of one device, use EcoStruxure Power Commission software to check the firmware compatibility between IMU devices.

The Firmware Update table helps the user to diagnose and identify all discrepancy issues between IMU devices. This table also provides the recommended actions for each discrepancy issue.

Click [here](#) to download the latest version of EcoStruxure Power Commission software.

For more information about the use of EcoStruxure Power Commission software, refer to *EcoStruxure Power Commission Online Help*.

Firmware Versions

Firmware Version 004.000.018

Bug Fixed

The communication loss between MasterPacT MTZ circuit breaker and FDM121 display was observed during the power cycle.

Firmware Version 004.000.013

Security Updates

Enabled password protection for firmware update of FDM121 display via EcoStruxure Power Commission software.

New Features

Manual factory reset of FDM121 display to its default factory settings.

Firmware Version 004.000.011

New Features

Added **Alarm History** and **New event** pop-up features for MasterPacT MTZ circuit breaker.

NOTE: For compatibility issue with older firmware versions (003.000.028 and earlier), refer to section Troubleshooting: Control Operations from FDM121 Display in the *MasterPacT MTZ MTZ2/MTZ3 IEC Switch-Disconnectors and Circuit Breakers with MicroLogic X Control Units from 800 to 6300 A – User Guide*, page 7.

Firmware Version 004.000.009

New Features

Supports MasterPacT MTZ circuit breaker and provides the following features:

- Metering
- Breaker status and control
- Device identification
- Reset (peak demand values, energy meters, minimum, and maximum values)
- Maintenance (operation counters and load profile)

NOTE: **Alarm History** and **New event** pop-up features are not available for MasterPacT MTZ circuit breaker.

Firmware Version 003.000.028

New Features

Added **Product ID** screen for MasterPacT MTZ NT/NW, ComPacT NS, and PowerPacT P- and R-frame circuit breakers.

Bug Fixed

The part number of MicroLogic trip unit displayed on the **Product ID** screen was flickering when connected to ComPacT NSX and PowerPacT H-, J-, and L-Frame circuit breakers.

Firmware Version 003.000.025

Bugs Fixed

The following bugs are fixed:

- ComPacT NSX breaker operation was not always possible after power restoration.
- On the ground fault event, the current value **I_g** was not displayed as **NA** in **Alarm History** screen.

Firmware Version 003.000.023

NOTE: Release for manufacturing of firmware version 003.000.022.

Firmware Version 003.000.022

NOTE: The firmware version 003.000.022 is released through EcoStruxure Power Commission (EPC) software.

New Features

Minor improvements in bar and dial graph screens.

Bugs Fixed

The following bugs are fixed:

- Values were randomly not displayed in **Quick View** and **Metering** screens on change of Breaker System type or Breaker.
- **Product ID** screen showed inconsistent pictures for ULP devices.
- **IO Lighting** and **Load control** ON/OFF status was inconsistent with actual status.
- Event pop-up was inconsistently displayed when user was in **Quick View** screen on power on.

- **Close Self Timer** screen did not stop timer countdown on occurrence of an event.

Firmware Version 003.000.016

Bug Fixed

Size of Chinese characters displayed on the screen was not consistent.

Firmware Version 003.000.013

New Features

The following features are added:

- All 14 languages supported by default.
- Improvement of the performance of the metering screen for reading values and navigation.
- Added QR code display to access information about the FDM121 display.
- Added new signature revocation mechanism to enhance cybersecurity.

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