

Enerlin'X

FDM121 Front Display Module for One Circuit Breaker

Firmware Release Notes

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Table of Contents

| | |
|--|---|
| Introduction | 5 |
| FDM121 Front Display Module for One Circuit Breaker | 5 |
| Firmware Release History | 5 |
| Firmware Update Policy | 6 |
| Firmware Update with EcoStruxure Power Commission Software | 6 |
| Firmware Versions | 7 |
| Firmware Version 004.000.011 | 7 |
| Firmware Version 004.000.009 | 7 |
| Firmware Version 003.000.028 | 7 |
| Firmware Version 003.000.025 | 7 |
| Firmware Version 003.000.023 | 7 |
| Firmware Version 003.000.022 | 8 |
| Firmware Version 003.000.016 | 8 |
| Firmware Version 003.000.013 | 8 |
| Related Documents | 9 |

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
- ComPacT NSX circuit breakers
- PowerPacT P- and R-frame 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

| Date | Firmware version | Availability |
|---------------|------------------|---------------------------|
| February 2022 | 004.000.011 | Release for manufacturing |
| 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 [DOCA0155EN](#) *MicroLogic Trip and Control Units - Firmware History*.

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 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.

The latest version of EcoStruxure Power Commission software is available at www.se.com.

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

Firmware Versions

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 *DOCA0101EN – MasterPact MTZ2/MTZ3 IEC Circuit Breakers and Switch-Disconnectors from 800 to 6300 A – User Guide*.

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, 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 NT/NW, ComPacT NS, and PowerPacT P- and R-frame circuit breakers.

Bugs 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

- 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

- 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

Bugs Fixed

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

Firmware Version 003.000.013

New Features

- 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.

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> | 10/2021 | DOCA0088EN |
| <i>ULP System (IEC Standard) – ULP (Universal Logic Plug) System – User Guide</i> | 03/2019 | DOCA0093EN |
| <i>ULP System (UL Standard) – ULP (Universal Logic Plug) System – User Guide</i> | 03/2019 | 0602IB1503 |

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

If the document with the revision index is not available on our website, contact your Customer Care Centre to obtain it from the documentation repository.

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