Enerlin’X

FDM128 Ethernet Display for Eight Devices

Firmware Release Notes

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www.se.com

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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.

About the Document

Document Scope

This document provides the firmware version history of FDM128 Ethernet display for eight devices.

Validity Note

This document is valid only for FDM128 Ethernet display for eight devices.

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.

Product Related Cybersecurity Information

⚠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.

Related Documents for IEC Devices

The following table lists the documents valid for IEC devices that are compatible with FDM128 with the latest firmware version:

Title of documentation	Reference number
Enerlin'X FDM128 – Ethernet Display for Eight Devices – Instruction Sheet	HRB45777
Enerlin'X FDM128 - Ethernet Display for Eight Devices - User Guide	DOCA0037EN DOCA0037ES DOCA0037FR DOCA0037ZH
Enerlin'X IFE - Ethernet Interface for One Circuit Breaker - User Guide	DOCA0142EN DOCA0142ES DOCA0142FR DOCA0142ZH
Enerlin'X IFE - Ethernet Switchboard Server - User Guide	DOCA0084EN DOCA0084ES DOCA0084FR DOCA0084ZH
Enerlin'X EIFE – Embedded Ethernet Interface for One MasterPacT MTZ Drawout Circuit Breaker – User Guide	DOCA0106EN DOCA0106ES DOCA0106FR DOCA0106ZH
Enerlin'X IO - Input/Output Application Module for One Circuit Breaker - User Guide	DOCA0055EN DOCA0055ES DOCA0055FR DOCA0055ZH
Smartlink Modbus Communication System – User Manual	DOCA0004EN DOCA0004ES DOCA0004FR DOCA0004DE DOCA0004IT DOCA0004PT

Title of documentation	Reference number
Smartlink Ethernet Communication System – User Manual	DOCA0073EN DOCA0073ES DOCA0073FR DOCA0073DE DOCA0073IT DOCA0073PT
Smartlink SI B – User Manual	DOCA0123EN DOCA0123ES DOCA0123FR DOCA0123DE DOCA0123IT
Smartlink SI D – User Manual	DOCA0115EN DOCA0115ES DOCA0115FR DOCA0115DE DOCA0115IT
EcoStruxure Panel Server - User Guide	DOCA0172EN DOCA0172ES DOCA0172FR DOCA0172PT DOCA0172IT DOCA0172DE
PowerLogic™ Ethernet Gateway EGX300 – User Guide	63230-319-216 (EN, ES, FR, DE)
ComPacT NSX – MicroLogic 5/6/7 Electronic Trip Units – User Guide	DOCA0141EN DOCA0141ES DOCA0141FR DOCA0141EN
ComPacT NSX – Modbus Communication – User Guide	DOCA0091EN DOCA0091ES DOCA0091FR DOCA0091ZH
MasterPacT NT/NW, ComPacT NS – Modbus Communication – User Guide	DOCA0054EN DOCA0054ES DOCA0054FR DOCA0054ZH
MasterPacT MTZ1 – IEC Circuit Breakers and Switch-Disconnectors from 630 to 1600 A – User Guide	DOCA0100EN DOCA0100ES DOCA0100FR DOCA0100ZH
MasterPacT MTZ2/MTZ3 – IEC Circuit Breakers and Switch-Disconnectors from 800 to 6300 A – User Guide	DOCA0101EN DOCA0101ES DOCA0101FR DOCA0101ZH
MasterPacT MTZ – MicroLogic X Control Unit – User Guide	DOCA0102EN DOCA0102ES DOCA0102FR DOCA0102ZH

Title of documentation	Reference number
MasterPacT MTZ – Modbus Communication – User Guide	DOCA0105EN DOCA0105ES DOCA0105FR DOCA0105ZH
ULP (Universal Logic Plug) System - User Guide	DOCA0093EN DOCA0093ES DOCA0093FR DOCA0093ZH

To find documents online, visit the Schneider Electric download center (www.se.com/ww/en/download/).

Related Documents for UL/ANSI Devices

The following table lists the documents valid for UL/ANSI devices that are compatible with FDM128 with the latest firmware version:

Title of documentation	Reference number
Enerlin'X FDM128 – Ethernet Display for Eight Devices – Instruction Sheet	HRB45777
Enerlin'X FDM128 - Ethernet Display for Eight Devices - User Guide	DOCA0037EN DOCA0037ES DOCA0037FR DOCA0037ZH
Enerlin'X IFE - Ethernet Interface for One Circuit Breaker - User Guide	DOCA0142EN DOCA0142ES DOCA0142FR DOCA0142ZH
Enerlin'X IFE - Ethernet Switchboard Server - User Guide	DOCA0084EN DOCA0084ES DOCA0084FR DOCA0084ZH
Enerlin'X EIFE – Embedded Ethernet Interface for One MasterPacT MTZ Drawout Circuit Breaker – User Guide	DOCA0106EN DOCA0106ES DOCA0106FR DOCA0106ZH
Enerlin'X IO - Input/Output Application Module for One Circuit Breaker - User Guide	DOCA0055EN DOCA0055ES DOCA0055FR DOCA0055ZH
PowerLogic™ Ethernet Gateway EGX300 – User Guide	63230-319-216 (EN, ES, FR, DE)
EcoStruxure Panel Server - User Guide	DOCA0172EN DOCA0172ES DOCA0172FR DOCA0172PT DOCA0172IT DOCA0172DE
MicroLogic 5 and 6 Electronic Trip Units for PowerPacT H-, J-, and L-Frame Circuit Breakers - User Guide	48940-312-01 (EN, ES, FR)
PowerPacT H-, J-, and L-Frame Circuit Breakers – Modbus Communication – User Guide	0611IB1302 (EN) 0611IB1303 (ES)

Title of documentation	Reference number
	0611IB1304 (FR) 0611IB1305 (ZH)
MasterPacT NT/NW and PowerPacT P- and R-Frame – Modbus Communication – User Guide	0613IB1313 (EN) 0613IB1314 (ES) 0613IB1315 (FR) 0613IB1316 (ZH)
MasterPacT MTZ1 - UL Rated/ANSI Certified Switches and Circuit Breakers with MicroLogic X Control Unit - User Guide	0614IB1702EN 0614IB1702FR
MasterPacT MTZ2/MTZ3 - UL Rated/ANSI Certified Switches and Circuit Breakers with MicroLogic X Control Unit - User Guide	0614IB1701EN 0614IB1701FR
MasterPacT MTZ – MicroLogic X Control Unit – User Guide	DOCA0102EN DOCA0102ES DOCA0102FR DOCA0102ZH
MasterPacT MTZ – Modbus Communication – User Guide	DOCA0105EN DOCA0105ES DOCA0105FR DOCA0105ZH
ULP System (UL Standard) - ULP (Universal Logic Plug) System - User Guide	0602IB1503EN 0602IB1504ES 0602IB1505FR 0602IB1506ZH

To find documents online, visit the Schneider Electric download center (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

Overview

The FDM128 Ethernet display for eight devices (LV434128) is a 1-to-8 human machine interface (HMI). The main component is a 5.7-inch touchscreen.

An FDM128 display can be connected to devices via an Ethernet interface by using any of the following options:

- One or more Ethernet gateways (IFE server, Link150, PowerLogic EGX300 and EGX100, PowerTag Link, PowerTag Link B, PowerTag Link HD, Smartlink SI B, or Smartlink Ethernet).
- One or more third-party Ethernet gateways that possess the appropriate characteristics.

The FDM128 display monitors and controls up to eight devices from the following list:

- Circuit breakers equipped with communicating MicroLogic trip units, such as:
  - 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 NSX and PowerPacT H-, J-, and L-frame circuit breakers in this guide applies to the existing range ComPacT NSX and PowerPact H-, J-, and L-frame circuit breakers also. The exceptions are mentioned wherever applicable.
    - The information related to the new generation of ComPacT NS and PowerPacT P- and R-frame circuit breakers in this guide applies to the existing range ComPacT NS and PowerPact P- and R-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.
- Switch-disconnectors, such as:
  - MasterPacT NT HA switch-disconnectors
  - MasterPacT NW NA/HA/HA10/HF switch-disconnectors
  - ComPacT NS NA switch-disconnectors
  - ComPacT NSX NA switch-disconnectors
  - PowerPacT P- and R-frame switch-disconnectors
  - PowerPacT H-, J-, and L-frame switch-disconnectors
- PowerTag Link devices, such as:
  - PowerTag Link gateway
  - PowerTag Link B gateway
  - PowerTag Link HD gateway
- Smartlink devices, such as:
  - Smartlink SI B gateway
  - Smartlink Modbus gateway

- EcoStruxure Panel Server devices, such as:
  - EcoStruxure Panel Server Universal
  - EcoStruxure Panel Server Advanced
  - EcoStruxure Panel Server Entry

The information displayed includes measures, alarms, and operating assistance data.

Firmware Release History

Date	Firmware version	Availability
February 2025	8.0.42	Released in www.se.com
May 2024	8.0.37	Obsolete
June 2022	8.0.30	Obsolete
March 2022	8.0.28	Obsolete
October 2021	8.0.26	Obsolete
July 2021	8.0.25	Obsolete
April 2021	8.0.21	Obsolete
December 2020	8.0.19	Obsolete
October 2020	8.0.16	Obsolete
July 2020	8.0.14	Obsolete
December 2019	8.0.12	Obsolete
May 2019	7.0.11	Obsolete
March 2019	7.0.10	Obsolete
July 2018	6.5.4	Obsolete
September 2017	6.4.2.2	Obsolete
July 2017	6.4.2	Obsolete
December 2016	6.3.4	Obsolete
June 2016	6.2.2	Obsolete
May 2015	6.1.1	Obsolete
October 2014	5.5.6	Obsolete

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 FDM128 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 Versions

Firmware Version 8.0.42

Bug Fix

FDM128 was not able to display the configured name and label for a channel of EcoStruxure I/O Smart Link.

Firmware Version 8.0.37

New Features

Integrated BSCM Modbus SL/ULP module with FDM128.

Bugs Fixed

- FDM128 was not able to discover PAS400.
- Auto-discovery is not happening properly via PAS600 or PAS800.
- FDM128 raises false high priority alarm dialog box during the MasterPacT MTZ circuit breaker boot up.

Firmware Version 8.0.30

New Features

Integrated the following devices:

- EcoStruxure Panel Server Universal
- EcoStruxure Panel Server Advanced

Firmware Version 8.0.28

Bugs Fixed

Voltage Harmonics Line – Neutral (THD VL-N) values were not displayed for 4-pole ComPacT NSX, PowerPacT H-, J-, and L-frame, ComPacT NS, PowerPacT P- and R-frame, and MasterPaT NT/NW circuit breakers.

Firmware Version 8.0.26

New Features

Added new screens to display power and energy readings for the following devices:

- PowerTag F63 energy sensors (A9MEM1564, A9MEM1573, and A9MEM1574)
- PowerTag M63 energy sensor (A9MEM1543)
- PowerTag NSX energy sensor 250A/630A for China market only (LVSMC13 and LVSMC23)

Firmware Version 8.0.25

New Features

- Integrated the new devices: ComPacT NS and PowerPacT P- and R-frame circuit breakers. These new ranges are the evolution of existing ComPact NS and PowerPact P- and R-frame range of circuit breakers.
- Added new screens to display power and energy readings for the following devices:
  - PowerTag F160 energy sensor (A9MEM1580)
  - PowerTag Rope energy sensors (A9MEM1590, A9MEM1591, A9MEM1592, and A9MEM1593)
  - PowerTag M250/M630 energy sensors (LV434020, LV434021, LV434022, and LV434023)

Firmware Version 8.0.21

New Features

- Integrated the following devices:
  - PowerTag F160 energy sensor (A9MEM1580)
  - PowerTag Rope energy sensors (A9MEM1590, A9MEM1591, A9MEM1592, and A9MEM1593)
  - ComPacT NSX and PowerPacT H-, J-, L-frame circuit breakers. These new ranges are the evolution of existing ComPact NSX and PowerPact H-, J-, and L-frame range of circuit breakers.
- Added Instantaneous Protection status, Ii (On/Off) for MasterPacT NT/NW and MasterPacT MTZ circuit breakers.

Bugs Fixed

- For MasterPacT MTZ circuit breaker:
  - The rate of **Remaining Service life indicator** was not updated correctly.
  - **Energy per phase** values were not displayed as per digital module availability.
  - In **General view**, the alarm status and circuit breaker status were not shown correctly when there was a high priority alarm.

Firmware Version 8.0.19

New Features

- Added Polish language

Bugs Fixed

- Sometimes the FDM128 display stopped working when in the **Measures (I)** tab.
- Low voltage circuit breakers were not discovered through Com'X or Link150 gateways.
- Sometimes the MicroLogic Xi control unit connected through IFM interface (LV434000) was not discovered.

Firmware Version 8.0.16

New Features

- Integrated a new device – MicroLogic Xi
- Added new events to monitor the internal Current Power Supply (CPS) sensors for MasterPacT MTZ circuit breaker.

Bugs Fixed

- Temperature reading was not available after reconfiguring the analog input of IO module through EcoStruxure Power Commission software.
- Volume in gallons was not supported for pulse counters configured on IO module.
- Temperature in °F was not supported for PT100 sensor connected to an IO module.
- Screen navigation, page numbering, and labels in the user interface had minor issues.

  NOTE: The above bugs were observed in firmware versions 8.0.14 and 8.0.12.

Firmware Version 8.0.14

Bugs Fixed

- PowerTag energy sensors connected to PowerTag Link/PowerTag Link HD gateways with firmware version ≥ 001.006.007 were not visible in FDM128 display.
- In **Device view**, the value of current (A) in PowerTag devices was not clearly visible for Russian language.
- The details of **Alarm history** for circuit breaker devices were not displayed after navigating from the PowerTag device.
- Misalignment of display text and translation issues were existing for Chinese, Russian, and French languages.

Firmware Version 8.0.12

New Features

- Integrated a new device – PowerTag Link B.
- Improved the device discovery performance by 40 – 50 %.
- After every discovery loop, two options are available to discover – Gateway and Single IP, until up to eight devices are added.

Bugs Fixed

- Status of **Breaker IO** blinked – applicable for Smartlink devices.
- Unexpected event pop-up was displayed after power off and on.
- In **General view**, the device icons were displayed one by one.
- During transition between pop-up and screens, the old screen was displayed for a moment.
- Display of updated measurement values of **Measures** submenu was delayed.
- In **General view**, the device icons were displayed as *Not Responding* state (Orange icon) for few seconds when returned from **Device view**.
- When switching between the panels, the value of THD IN blinked.
- Remote display on iOS or Android smartphone or tablet through Vijeo Design'Air app is removed due to cybersecurity risk.

Firmware Version 7.0.11

Bugs Fixed

- Smartlink channel configuration was lost when restarting FDM128 display.

Firmware Version 7.0.10

New Features

- Integrated the following devices:
  - PowerTag Link
  - PowerTag Link HD
  - MasterPacT NT/NW switch-disconnectors
  - ComPacT NSX switch-disconnectors
  - ComPacT NS switch-disconnectors
  - PowerPacT P- and R-frame switch-disconnectors
  - PowerPacT H-, J-, and L-frame switch-disconnectors
- For all devices:
  - Allows search of devices from a different subnetwork
  - Displays **Device view** directly if only one device is selected (no **General view**)
  - Sound feedback when active area on screen is touched

- For all MicroLogic trip units and control units:
  - Added IMU location feature in **Device view**
- For MicroLogic X control unit:
  - Displays ERMS mode
  - Measures and displays THD MIN, THD MAX, cosφ per phase
  - Added maintenance reminder events

Bugs Fixed

- Breaker Operation process was inconsistent with other interfaces.
- Progress message was not displayed for Breaker Operation function.
- Current and time units were inconsistent with MicroLogic trip and control units.
- Text and graphics were misaligned on FDM128 display.

Firmware Version 6.5.4

New Features

- Integrated the following devices:
  - PowerTag energy sensors with part numbers A9MEM1560 to A9MEM1572
  - Acti 9 OF24 indication auxiliaries
  - Acti 9 SD24 indication auxiliaries
  - PowerTag M250/M630 energy sensors
- For all MicroLogic trip units and control units:
  - **Quick view** additionally displays ampere protection settings: Ir, Isd, Ii, Ig, and IΔn.
  - Safety message displays before opening and closing of the circuit breaker.
- For MicroLogic X control units with firmware version 002.000.003 or greater:
  - Integration of additional events.
  - **Device view** additionally displays:
    - Maintenance: load profile
    - Measures: current demand and power demand
- For ComPacT NSX circuit breakers with MicroLogic 7 trip unit:
  - **Device view** additionally displays earth leakage current.
- For FDM128 display:
  - Selection of Modbus address range (between 1 and 247) before launching device discovery
  - Pre-filling of gateway and device IP addresses according to FDM128 IP address and subnetwork mask
  - Cancelation of device discovery in progress
- Real time refresh rates *Primary* and *Secondary* renamed to *Fast* and *Slow* respectively.

Bugs Fixed

- In **General view**, status of ComPacT NSX and PowerPacT H-, J-, L-frame devices was unstable.
- Bar graph was inconsistent with real-time current values for PowerTag devices.
- Text and graphics on display were misaligned.

Firmware Version 6.4.2.2

Bugs Fixed

- There was access competition to the same circuit breaker on the Modbus serial line between several masters.

Firmware Version 6.4.2

New Features

- Integrated the following devices:
  - Acti 9 Smartlink SI D gateway
  - Enerlin'X IFM Modbus-SL interface
- For MicroLogic X control unit:
  - Integrated MTZ active alarms and alarm history

Bugs Fixed

- In the **General view** grid, toggling of intermittent communication status resulted in unhealthy status, which is indicated in orange.
- Auto-discovery did not always function when more than nine Modbus slave devices were connected to the same master gateway.
- When IO modules were connected to a ComPacT NSX circuit breaker without a BSCM installed, the **Quick view** circuit breaker status was shown as *Open*.
- For ComPacT NSX circuit breaker without a BSCM installed, some pages in **Quick view** display were shown as *Not Responding* in the title bar.
- For MasterPacT MTZ circuit breaker, FDM128 displayed incorrect contact wear value in maintenance page.
- For MasterPacT MTZ circuit breaker, FDM128 displayed incorrect power factor value in measures page.

Firmware Version 6.3.4

New Features

- Integrated the following devices:
  - MasterPacT MTZ circuit breakers
  - Acti 9 Smartlink SI B gateways
  - PowerTag energy sensors

Firmware Version 6.2.2

New Features

- Optimized scan in **General view**
- Added Refresh button to refresh IMU names and Smartlink names
- Removed date and time
- Added Turkish language

Firmware Version 6.1.1

New Features

- Added RBAC access management with three levels: Guest, Operator, and Administrator
- Added the following communication settings:
  - Extended auto-discovery from single gateway to several gateways
  - Manual addition of additional single IP devices from **General view**
  - Communication settings displayed from **General view**
- Added IMU location feature
- Added Czech language

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

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