Enerlin'X

FDM128 Ethernet Display for Eight Devices

Firmware Release Notes

DOCA0151EN-07
07/2021

Schneider Electric

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Introduction

FDM128 Ethernet Display for Eight Devices

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
  - 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 NSX and PowerPacT H-, J-, and L-frame circuit breakers in this guide applies to 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 ComPact NS and PowerPact P- and R-frame circuit breakers also. The exceptions are mentioned wherever applicable.

- 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

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

Firmware Release History

Date	Firmware version	Availability
July 2021	8.0.25	Release for manufacturing
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 DOCA0155EN *MicroLogic Trip and Control Units - Firmware History*.

Firmware Update

For more information on updating the FDM128 firmware, refer to DOCA0037EN *Enerlin'X FDM128 Ethernet Display for Eight Devices – User Guide*.

Firmware Versions

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 NSX 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 NSX 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

Related Documents

The following table lists the documents that are compatible with a FDM128 display with the latest firmware version:

Title of documentation	Publication date	Reference number
Enerlin'X FDM128 Ethernet Display for Eight Devices – User Guide	04/2021	DOCA0037EN-09
		DOCA0037ES-09
		DOCA0037FR-09
		DOCA0037ZH-09

You can download these technical publications and other technical information from the website at https://www.se.com/en/download.

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

DOCA0151EN-07