

MicroLogic Trip Units and Control Units

Firmware History

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Table of Contents

Safety Information.....	5
MicroLogic Firmware Update Policy	6
Firmware Update Policy	6
Firmware Update with EcoStruxure Power Commission Software	6
Procedure for Finding the Firmware Version of a MicroLogic Trip Unit or Control Unit.....	6
Firmware Release Notes	8
List of Firmware Release Notes	8
NSX MicroLogic Trip Units.....	10
NSX MicroLogic 5/6 Firmware History	10
NSX MicroLogic 7 Firmware History	10
Enerlin'X Devices Compatible with NSX MicroLogic 5/6 Trip Units	10
Enerlin'X Devices Compatible with NSX MicroLogic 7 Trip Units.....	11
NT/NW MicroLogic Trip Units.....	13
NT/NW MicroLogic Trip Units.....	13
NT/NW MicroLogic A Firmware History	13
NT/NW MicroLogic E Firmware History	13
NT/NW MicroLogic P/H Firmware History	13
Enerlin'X Devices Compatible with NT/NW MicroLogic A/E	14
Enerlin'X Devices Compatible with NT/NW MicroLogic P/H.....	15
MTZ MicroLogic X Control Units.....	17
MTZ MicroLogic X Firmware History	17
Enerlin'X Devices Compatible with MTZ MicroLogic X Control Unit.....	17
Digital Modules Compatible with MTZ MicroLogic X Control Unit	18

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 message 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 with 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.**

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

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in death or serious injury.**

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

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in minor or moderate injury.**

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

NOTICE

NOTICE is used to address practices not related to physical injury.

Failure to follow these instructions can result in equipment damage.

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 person 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.

MicroLogic Firmware Update Policy

Firmware Update Policy

The MicroLogic trip unit or control unit of a circuit breaker is the main component of the intelligent modular unit (IMU). The IMU includes the circuit breaker, the MicroLogic trip unit or control unit and the associated optional Enerlin'X devices.

The primary reason for updating the firmware of a MicroLogic trip unit or control unit is to obtain the latest IMU features. If the latest IMU features are not required, it is not mandatory to update the firmware of the MicroLogic trip unit or control unit and the Enerlin'X devices of the IMU.

If you notice a bug on the MicroLogic trip unit or control unit, or on one of the Enerlin'X devices of the IMU, refer to the release note corresponding to the device to check if the bug is corrected in a later version of the firmware. Update the firmware of the device to benefit from the correction. If there is no bug fix available, call the Customer Care Centre.

Use the latest version of EcoStruxure Power Commission software to update the firmware of a MicroLogic trip unit or control unit, or an Enerlin'X device of the IMU.

After updating the firmware of one device, Schneider Electric recommends updating the firmware of the other devices in the IMU to maintain compatibility and avoid discrepancies between devices. Before proceeding, check the compatibility of the other devices with the new firmware.

The tables in this document provide information about the backward compatibility between MicroLogic trip units or control units and Enerlin'X devices.

Firmware Update with EcoStruxure Power Commission Software

EcoStruxure™ Power Commission is the new name of Ecoreach software.

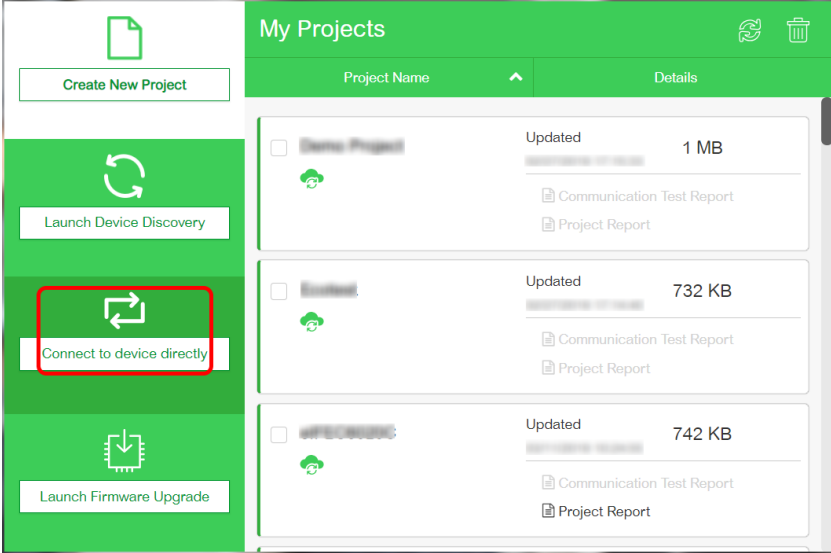
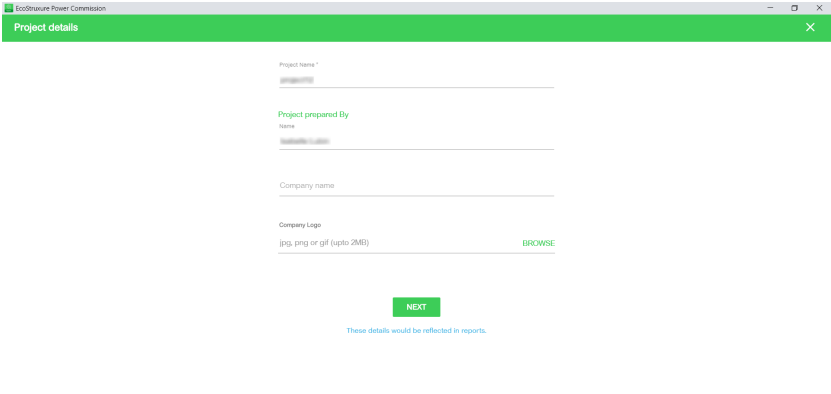
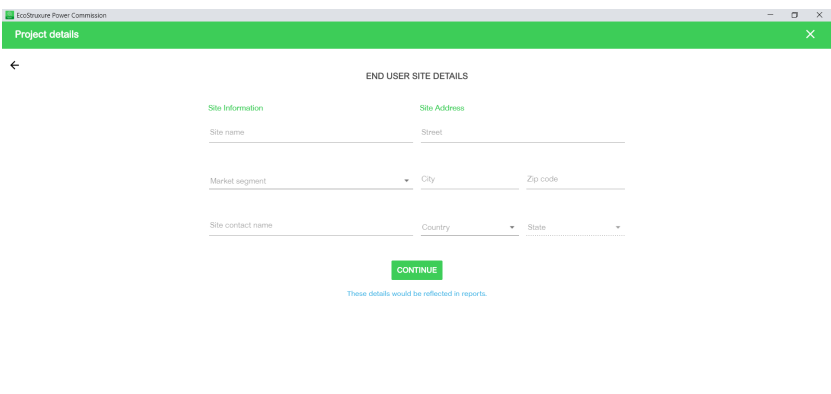
Use the latest version of EcoStruxure Power Commission software:

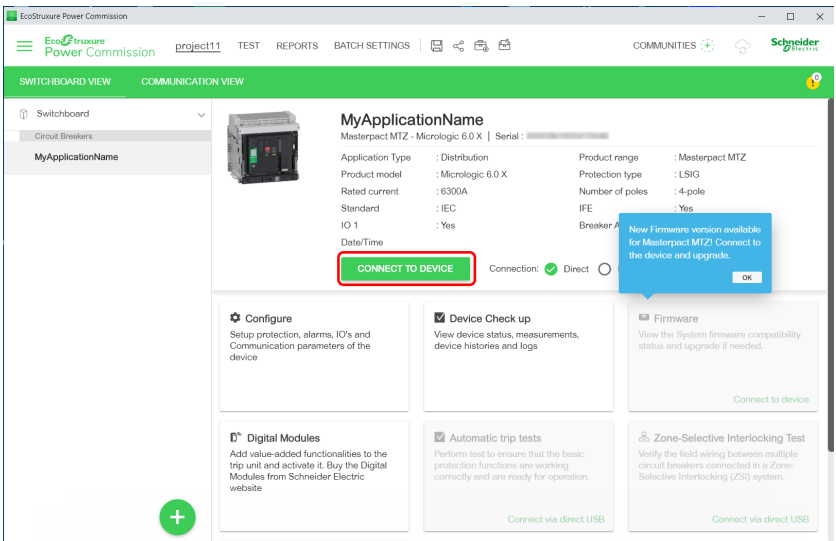
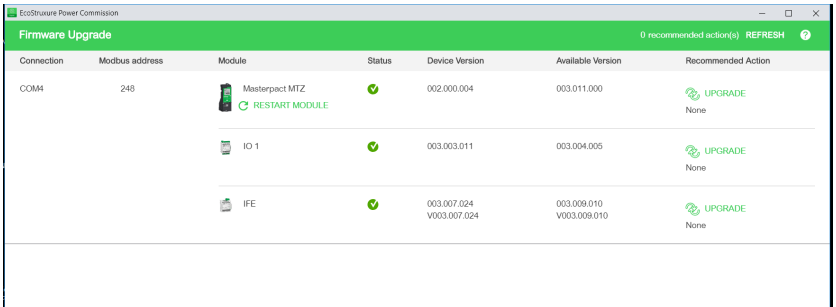
- To check the firmware compatibility of the devices in the IMU
- To find the firmware version of a MicroLogic trip unit or control unit (refer to the following procedure)
- To update the devices with the latest firmware version available

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

Procedure for Finding the Firmware Version of a MicroLogic Trip Unit or Control Unit

Follow this procedure to find the firmware version of a MicroLogic trip unit or control unit:

Step	Action
1	Connect the PC running EcoStruxure Power Commission software to the MicroLogic trip unit or control unit.
2	<p>Click Connect to device directly.</p>  <p>The screenshot shows the 'My Projects' dashboard with three project entries. The 'Connect to device directly' button is highlighted with a red rectangle in the left-hand navigation menu.</p>
3	<p>Fill in the project details and click NEXT.</p>  <p>The screenshot shows the 'Project details' form with fields for Project name, Project prepared By, Company name, and Company Logo. A green 'NEXT' button is visible at the bottom.</p>
4	<p>Fill in the end user site details and click CONTINUE.</p>  <p>The screenshot shows the 'END USER SITE DETAILS' form with fields for Site name, Street, City, Zip code, Country, and State. A green 'CONTINUE' button is visible at the bottom.</p> <p>The device is displayed.</p>

Step	Action
5	<p>If a new MicroLogic X firmware version is available, a blue pop-up message is displayed to invite the user to update the firmware. Click CONNECT TO DEVICE.</p> 
6	<p>Click Firmware.</p> <p>The firmware versions of the devices in the IMU are displayed.</p> 

Firmware Release Notes

Release notes are documents that detail the history of the firmware versions of a device, indicating for each firmware version:

- Firmware version release date
- New features
- Bug fixes
- References of related documents

List of Firmware Release Notes

Title of documentation	Reference number
MasterPact MTZ MicroLogic X Firmware Release Note	DOCA0144EN
Enerlin'X IFM Firmware Release Note (TRV00210/STRV00210)	DOCA0145EN
Enerlin'X IFM Firmware Release Note (LV434000)	DOCA0146EN
Enerlin'X IFE/EIFE Interface Firmware Release Note	DOCA0147EN
Enerlin'X IO Firmware Release Note	DOCA0149EN
Enerlin'X FDM121 Firmware Release Note	DOCA0150EN
Enerlin'X FDM128 Firmware Release Note	DOCA0151EN

Title of documentation	Reference number
BCM ULP Firmware Release Note	<i>DOCA0152EN</i>
ComPact NSX / PowerPact H-, J-, and L-Frame MicroLogic 5/6 Firmware Release Note	<i>DOCA0153EN</i>

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

NSX MicroLogicTrip Units

NSX MicroLogic 5/6 Firmware History

NSX MicroLogic 5/6 trip units are designed for:

- ComPact NSX circuit breakers
- PowerPact H-, J-, and L-frame circuit breakers

Each hardware version of an NSX MicroLogic 5/6 trip unit is available with one or more firmware versions (see table below). You can update an NSX MicroLogic 5/6 trip unit to the latest firmware version compatible with its hardware. For more information, refer to *DOCA0153EN ComPact NSX MicroLogic 5/6 Release Note*.

Date	MicroLogic 5/6 hardware version	MicroLogic 5/6 firmware version	Availability
June 2018	HW 001.000.000	FW 001.003.000	Release for manufacturing
December 2016	HW 001.000.000	FW 001.002.002	Obsolete
December 2015	HW 15*	FW 1.1.0	Obsolete
December 2014	HW 15	FW 1.0.3	Obsolete
July 2008	HW 15	FW 1.0.2	Obsolete

Example: MicroLogic 5 trip unit with firmware version 001.002.002 can be updated to firmware version 001.003.000, which is compatible with hardware version 001.000.000. The firmware of NSX MicroLogic 5/6 trip units with hardware version 15 or 15* cannot be updated.

NSX MicroLogic 7 Firmware History

NSX MicroLogic 7 trip units are designed for ComPact NSX circuit breakers only.

The hardware and firmware versions of NSX MicroLogic 7 trip units are different from the hardware and firmware versions of NSX MicroLogic 5/6 trip units.

Date	MicroLogic 7 firmware version	Availability
July 2018	002.001.001	Release for manufacturing

Enerlin'X Devices Compatible with NSX MicroLogic 5/6 Trip Units

Use EcoStruxure Power Commission software to find the firmware version of an NSX MicroLogic 5/6 trip unit:

- For NSX MicroLogic 5/6 trip units with firmware version 1.0.2, use EcoStruxure Power Commission software to update to firmware version 1.0.3 to maintain compatibility with all Enerlin'X devices.
- For NSX MicroLogic 5/6 trip units with firmware version greater than or equal to 1.0.3, NSX MicroLogic 5/6 trip unit is compatible with all Enerlin'X devices.

NOTICE

HAZARD OF NON-COMMUNICATION BETWEEN THE IMU DEVICES

Check the firmware compatibility of the devices in the IMU by using the latest version of EcoStruxure Power Commission software, and follow the recommended actions.

Failure to follow these instructions can result in critical firmware discrepancy.

The following table shows the minimum firmware version of Enerlin'X devices that is required to enable communication with an NSX MicroLogic 5/6 trip unit.

	Part number	Firmware version of NSX MicroLogic 5/6 trip unit	
		1.0.2	≥ 1.0.3
IFM Modbus-SL interface for one circuit breaker with RJ45	LV434000	≥ 003.000.012	≥ 003.000.012
IFM Modbus-SL interface for one circuit breaker	TRV00210 STRV00210	≥ 001.001.001	≥ 002.002.007
IFE Ethernet interface for one circuit breaker with RTC	LV434001	–	≥ 003.006.011
IFE Ethernet interface for one circuit breaker	LV434010	–	<ul style="list-style-type: none"> • program file: ≥ 001.008.004 • webpage: ≥ 001.008.009
IFE Ethernet switchboard server with RTC	LV434002	–	≥ 003.006.011
IFE Ethernet switchboard server	LV434011	–	<ul style="list-style-type: none"> • program file: ≥ 001.008.004 • webpage: ≥ 001.008.009
IO input/output application module for one circuit breaker	LV434063	–	≥ 002.001.004
FDM121 front display module for one circuit breaker	TRV00121 STRV00121	≥ 002.003.004	≥ 002.003.005
FDM128 Ethernet display for eight devices	LV434128	–	≥ 5.5.6
USB maintenance module	TRV00911	≥ 001.000.009	≥ 001.000.009
BSCM circuit breaker status control module	LV434205	≥ 002.001.008	≥ 002.002.007

Example: An NSX MicroLogic 5 trip unit with firmware version 1.0.2 is compatible with:

- IFM interface TRV00210 with firmware version greater than or equal to 001.001.001 or IFM interface LV434000 with firmware version greater than or equal to 003.000.012
- FDM121 display with firmware version greater than or equal to 002.003.004
- USB maintenance module with firmware version greater than or equal to 001.000.009
- BSCM module with firmware version greater than or equal to 002.001.008

The NSX MicroLogic 5 trip unit must be updated to firmware version 1.0.3 to be compatible with IO module or IFE interfaces.

Enerlin'X Devices Compatible with NSX MicroLogic 7 Trip Units

NOTICE

HAZARD OF NON-COMMUNICATION BETWEEN THE IMU DEVICES

Check the firmware compatibility of the devices in the IMU by using the latest version of EcoStruxure Power Commission software, and follow the recommended actions.

Failure to follow these instructions can result in critical firmware discrepancy.

The following table shows the minimum firmware version of Enerlin'X devices that is required to enable communication with an NSX MicroLogic 7 trip unit.

Device	Part number	Firmware version of NSX MicroLogic 7 trip unit
		≥ 002.001.001
IFM Modbus-SL interface for one circuit breaker with RJ45	LV434000	≥ 003.000.012
IFM Modbus-SL interface for one circuit breaker	TRV00210 STRV00210	≥ 002.002.007
IFE Ethernet interface for one circuit breaker with RTC	LV434001	≥ 003.006.011
IFE Ethernet interface for one circuit breaker	LV434010	<ul style="list-style-type: none"> • program file: ≥ 001.008.004 • webpage: ≥ 001.008.009
IFE Ethernet switchboard server with RTC	LV434002	≥ 003.006.011
IFE Ethernet switchboard server	LV434011	<ul style="list-style-type: none"> • program file: ≥ 001.008.004 • webpage: ≥ 001.008.009
IO input/output application module for one circuit breaker	LV434063	≥ 002.001.004
FDM121 front display module for one circuit breaker	TRV00121 STRV00121	≥ 002.003.005
FDM128 Ethernet display for eight devices	LV434128	≥ 5.5.6
USB maintenance module	TRV00911	≥ 001.000.009
BSCM circuit breaker status control module	LV434205	≥ 002.002.007

NT/NW MicroLogic Trip Units

NT/NW MicroLogic Trip Units

NT/NW MicroLogic trip units communicate with Enerlin'X devices of the IMU through a BCM ULP circuit breaker communication module.

Use EcoStruxure Power Commission software to update the firmware version of the BCM ULP circuit breaker communication module to benefit from new features and maintain compatibility between Enerlin'X devices.

NT/NW MicroLogic A Firmware History

NT/NW MicroLogic A trip units are designed for:

- MasterPact NT/NW circuit breakers
- ComPact NS630b-3200 circuit breakers
- PowerPact P- and R-frame circuit breakers

Date	NT/NW MicroLogic A firmware version	Availability
October 2009	01.029	Release for manufacturing
August 2009	01.028	Obsolete
September 2007	01.027	Obsolete

NT/NW MicroLogic E Firmware History

NT/NW MicroLogic E trip units are designed for:

- MasterPact NT/NW circuit breakers
- ComPact NS630b-3200 circuit breakers

Date	NT/NW MicroLogic E firmware version	Availability
June 2013	1.016	Release for manufacturing
June 2012	1.013	Obsolete
October 2011	1.012	Obsolete

NT/NW MicroLogic P/H Firmware History

NT/NW MicroLogic P/H trip units are designed for:

- MasterPact NT/NW circuit breakers
- ComPact NS630b-3200 circuit breakers
- PowerPact P- and R-frame circuit breakers

Date	NT/NW MicroLogic P/H firmware version	Availability
October 2014	2014AQ ⁽¹⁾ or 8.284 ⁽²⁾	Release for manufacturing
March 2014	2014AN ⁽¹⁾ or 8.282 ⁽²⁾	Obsolete
December 2010	2010AK ⁽¹⁾ or 8.273 ⁽²⁾	Obsolete

Date	NT/NW MicroLogic P/H firmware version	Availability
March 2009	2009AJ ⁽¹⁾ or 8.268 ⁽²⁾	Obsolete
(1) Firmware version displayed on MicroLogic HMI.		
(2) Firmware version readable in MicroLogic register 8710 through communication.		

Enerlin'X Devices Compatible with NT/NW MicroLogic A/E

Compatibility with Enerlin'X devices of the IMU depends on the firmware version of the BCM ULP module only. It does not depend on the firmware version of the MicroLogic trip unit. For more information, refer to *DOCA0152EN BCM ULP Firmware Release Note*.

NOTICE

HAZARD OF NON-COMMUNICATION BETWEEN THE IMU DEVICES

Check the firmware compatibility of the devices in the IMU by using the latest version of EcoStruxure Power Commission software, and follow the recommended actions.

Failure to follow these instructions can result in critical firmware discrepancy.

The following table shows the minimum firmware version of Enerlin'X devices that is required to enable communication with a BCM ULP module.

Device	Part number	Firmware version of BCM ULP module	
		3.3.4 – 4.0.6	≥ 4.0.7
IFM Modbus-SL interface for one circuit breaker with RJ45	LV434000	–	≥ 003.000.012
IFM Modbus-SL interface for one circuit breaker	TRV00210 STRV00210	–	≥ 002.002.007
IFE Ethernet interface for one circuit breaker with RTC	LV434001	–	≥ 003.006.011
IFE Ethernet interface for one circuit breaker	LV434010	–	<ul style="list-style-type: none"> • program file: ≥ 001.008.004 • webpage: ≥ 001.008.009
IFE Ethernet switchboard server with RTC	LV434002	–	≥ 003.006.011
IFE Ethernet switchboard server	LV434011	–	<ul style="list-style-type: none"> • program file: ≥ 001.008.004 • webpage: ≥ 001.008.009
IO input/output application module for one circuit breaker	LV434063	–	≥ 002.001.004
FDM121 front display module for one circuit breaker	TRV00121 STRV00121	≥ 002.003.004	≥ 002.003.005
FDM128 Ethernet display for eight devices	LV434128	–	≥ 5.5.8
USB maintenance module	TRV00911	≥ 001.000.009	≥ 001.000.009

Example: An NT/NW MicroLogic A trip unit equipped with a BCM ULP circuit breaker communication module with firmware version 3.3.4 is compatible with:

- FDM121 display with firmware version greater than or equal to 002.003.004
- USB maintenance module with firmware version greater than or equal to 001.000.009

The firmware version of the BCM ULP module must be updated to a version greater than 4.0.7 to be compatible with IO module or IFE interfaces. Use

EcoStruxure Power Commission software to update the firmware of the BCM ULP module.

Enerlin'X Devices Compatible with NT/NW MicroLogic P/H

Compatibility with Enerlin'X devices of the IMU depends on the firmware version of the MicroLogic P/H trip unit and on the firmware version of the BCM ULP module. For more information, refer to *DOCA0152EN BCM ULP Firmware Release Note*.

NOTICE

HAZARD OF NON-COMMUNICATION BETWEEN THE IMU DEVICES

Check the firmware compatibility of the devices in the IMU by using the latest version of EcoStruxure Power Commission software, and follow the recommended actions.

Failure to follow these instructions can result in critical firmware discrepancy.

The following table shows the minimum firmware version of the Enerlin'X devices that is required to enable communication with a MicroLogic P/H trip unit, depending on the firmware version of the BCM ULP module.

Device	Part number	Firmware version of BCM ULP module		
		MicroLogic 2010AK ⁽¹⁾ or 8.273 ⁽²⁾ and BCM ULP $\geq 3.3.4$	MicroLogic $\geq 2014AN$ ⁽¹⁾ or 8.282 ⁽²⁾ and BCM ULP 3.3.4 – 4.0.6	MicroLogic $\geq 2014AN$ ⁽¹⁾ or 8.282 ⁽²⁾ and BCM ULP $\geq 4.0.7$
IFM Modbus-SL interface for one circuit breaker with RJ45	LV434000	–	–	$\geq 003.000.012$
IFM Modbus-SL interface for one circuit breaker	TRV00210 STRV00210	–	–	$\geq 002.002.007$
IFE Ethernet interface for one circuit breaker with RTC	LV434001	–	–	$\geq 003.006.011$
IFE Ethernet interface for one circuit breaker	LV434010	–	–	<ul style="list-style-type: none"> • program file: $\geq 001.008.004$ • webpage: $\geq 001.008.009$
IFE Ethernet switchboard server with RTC	LV434002	–	–	$\geq 003.006.011$
IFE Ethernet switchboard server	LV434011	–	–	<ul style="list-style-type: none"> • program file: $\geq 001.008.004$ • webpage: $\geq 001.008.009$
IO input/output application module for one circuit breaker	LV434063	–	–	$\geq 002.001.004$
FDM121 front display module for one circuit breaker	TRV00210 STRV00210	$\geq 002.003.004$	$\geq 002.003.004$	$\geq 002.003.005$
FDM128 Ethernet display for eight devices	LV434128	–	–	$\geq 5.5.8$
USB maintenance module	TRV00911	$\geq 001.000.009$	$\geq 001.000.009$	$\geq 001.000.009$

(1) NT/NW MicroLogic P/H trip unit firmware version displayed on MicroLogic HMI.

(2) NT/NW MicroLogic P/H trip unit firmware version readable in MicroLogic register 8710 through communication.

Example: An NT/NW MicroLogic P trip unit with firmware version 2014AN or 8.282 and equipped with a BCM ULP circuit breaker communication module with firmware version 3.3.4 is compatible with:

- FDM121 display with firmware version greater than or equal to 002.003.004
- USB maintenance module with firmware version greater than or equal to 001.000.009

The firmware version of the BCM ULP module must be updated to a version greater than 4.0.7 to be compatible with IO module or IFE interfaces. EcoStruxure Power Commission software to update the firmware of the BCM ULP module.

MTZ MicroLogic X Control Units

MTZ MicroLogic X Firmware History

MTZ MicroLogic X control units are designed for:

- MasterPact MTZ1 circuit breakers
- MasterPact MTZ2/MTZ3 circuit breakers

Date	MicroLogic X firmware version	Availability
April 2020	004.105.000	Release for manufacturing
December 2019	004.101.000	Obsolete
July 2019	003.012.000	Obsolete
March 2019	003.011.000	Obsolete
November 2018	002.000.004	Obsolete
June 2018	002.000.003	Obsolete
April 2018	002.000.002	Obsolete
December 2017	001.000.206	Obsolete
July 2017	001.000.202	Obsolete
December 2016	001.000.200	Obsolete

For more information, refer to *DOCA0144EN MasterPact MTZ MicroLogic X Control Unit Firmware Release Note*.

Enerlin'X Devices Compatible with MTZ MicroLogic X Control Unit

NOTICE
<p>HAZARD OF NON-COMMUNICATION BETWEEN THE IMU DEVICES</p> <p>Check the firmware compatibility of the devices in the IMU by using the latest version of EcoStruxure Power Commission software, and follow the recommended actions.</p> <p>Failure to follow these instructions can result in critical firmware discrepancy.</p>

The following table shows the minimum firmware version of Enerlin'X devices that is required to enable communication with an MTZ MicroLogic X control unit.

Device	Part number	Firmware version of MTZ MicroLogic X control unit	
		001.000.200 to 001.000.206	≥ 002.000.002
IFM Modbus-SL interface for one circuit breaker with RJ45	LV434000	≥ 003.000.012	released version > 003.001.000
IFM Modbus-SL interface for one circuit breaker	TRV00210 STRV00210	–	–
IFE Ethernet interface for one circuit breaker with RTC	LV434001	–	≥ 003.007.024
IFE Ethernet interface for one circuit breaker	LV434010	≥ 003.005.003 and date code ≥ HL16485 ⁽¹⁾	≥ 003.007.024
IFE Ethernet switchboard server with RTC	LV434002	–	≥ 003.007.024
IFE Ethernet switchboard server	LV434011	≥ 003.005.003 and date code ≥ HL16485 ⁽¹⁾	≥ 003.007.024

Device	Part number	Firmware version of MTZ MicroLogic X control unit	
		001.000.200 to 001.000.206	≥ 002.000.002
EIFE Embedded Ethernet interface for one MasterPact MTZ drawout circuit breaker	LV851001	≥ 003.005.003	≥ 003.007.024
IO input/output application module for one circuit breaker	LV434063	≥ 003.002.002 and date code ≥ HL16486 ⁽²⁾	≥ 003.003.011
FDM128 Ethernet display for eight devices	LV434128	≥ 6.3.4	≥ 6.5.3
(1) IFE hardware is compatible if manufacturing date code on the IFE label is greater than HL16485. IFE hardware with manufacturing date code lower than HL16485 operates correctly but generates a non-critical hardware discrepancy.			
(2) IO module hardware is compatible if manufacturing date code on the IO module label is greater than HL16486. IO module hardware with manufacturing date code lower than HL16486 operates correctly but generates a non-critical hardware discrepancy.			

Example: An MTZ MicroLogic X control unit with firmware version 001.000.200 is compatible with:

- IFM interface LV434000 with firmware version greater than or equal to 003.000.012
- IFE interface with firmware version greater than or equal to 003.005.003 and date code greater than or equal to HL16485
- EIFE interface with firmware version greater than or equal to 003.005.003
- IO module for one circuit breaker with firmware version 003.002.002 and date code greater than or equal to HL16486
- FDM128 display with firmware version greater than or equal to 6.3.4

The MTZ MicroLogic X control unit must be updated to firmware version greater than or equal to 002.000.002 to be compatible with an IFE interface with RTC.

NOTE: To benefit from the latest IMU features, it is recommended to update the firmware of the MTZ MicroLogic X control unit and the Enerlin'X devices of the IMU.

Digital Modules Compatible with MTZ MicroLogic X Control Unit

The following table presents the minimum MicroLogic X firmware version needed for the Digital Module to function:

Digital Module	Part number	Firmware version of MTZ MicroLogic X control unit
IEC 61850 for MasterPact MTZ	LV850046	≥ 004.101.000
Directional overcurrent protection	LV850015	≥ 004.101.000
IDMTL overcurrent protection	LV850037	≥ 004.101.000
Under/Overfrequency protection	LV850013	≥ 003.012.000
Individual harmonics analysis	LV850006	≥ 002.000.002
Under/Over voltage protection	LV850012	≥ 002.000.002
Reverse active power	LV850011	≥ 002.000.002
Ground-fault alarm	LV850007	≥ 002.000.002
Energy Reduction Maintenance Settings (ERMS)	LV850009	≥ 002.000.002
Modbus legacy dataset	LV850045	≥ 002.000.002
Energy per phase	LV850002	≥ 001.000.002
Power restoration assistant	LV850004	≥ 001.000.002
MasterPact operation assistant	LV850005	≥ 001.000.002
Waveform capture on trip event	LV850003	≥ 001.000.002

Refer to *DOCA0102EN MasterPact MTZ MicroLogic X Control Unit User Guide* for compatibility of the Digital Module with Enerlin[®]X devices.

Schneider Electric
35 rue Joseph Monier
92500 Rueil Malmaison
France

+ 33 (0) 1 41 29 70 00

www.schneider-electric.com

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