Enerlin'X IO

Input/Output Application Module for One Circuit Breaker

Firmware Release Notes

DOCA0149EN-04
08/2024

Schneider Electric
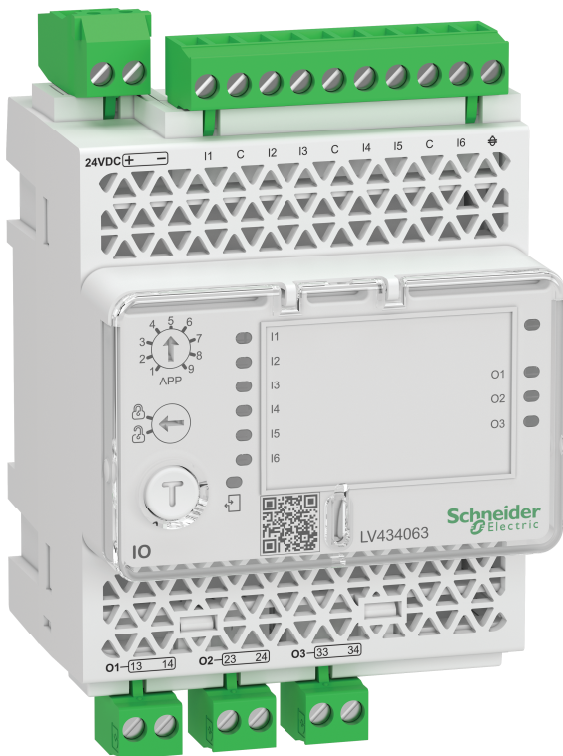
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Safety Information

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 IO Input/Output application module for one circuit breaker (or IO module).

Validity Note

This document is valid only for IO Input/Output application module 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 home page at www.se.com.

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 for IEC Devices

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

Title of documentation	Publication date	Reference number
Enerlin'X IO – Input/Output Application Module for One Circuit Breaker – Instruction Sheet	08/2024	HRB49217
Enerlin'X IO – Input/Output Application Module for One IEC Circuit Breaker – User Guide	08/2024	DOCA0055EN DOCA0055ES DOCA0055FR DOCA0055ZH
ULP System (IEC Standard) – User Guide	10/2023	DOCA0093EN DOCA0093ES DOCA0093FR DOCA0093ZH
MasterPacT MTZ – Modbus Communication Guide	05/2023	DOCA0105EN DOCA0105ES DOCA0105FR DOCA0105ZH
MasterPacT NT/NW Modbus Communication Guide	05/2023	DOCA0054EN DOCA0054ES DOCA0054FR DOCA0054ZH

Title of documentation	Publication date	Reference number
ComPacT NSX - Modbus Communication Guide	06/2024	DOCA0213EN DOCA0213ES DOCA0213FR DOCA0213ZH
ComPacT NS - Modbus Communication Guide	07/2022	DOCA0220EN DOCA0220ES DOCA0220FR DOCA0220ZH

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 an IO module with the latest firmware version:

Title of documentation	Publication date	Reference number
Enerlin'X IO – Input/Output Application Module for One Circuit Breaker – Instruction Sheet	08/2024	HRB49217
Enerlin'X IO – Input/Output Application Module for One UL Circuit Breaker – User Guide	08/2024	DOCA0055EN DOCA0055ES DOCA0055FR DOCA0055ZH
ULP System (UL Standard) – User Guide	10/2023	0602IB1503 (EN) 0602IB1504 (ES) 0602IB1505 (FR) 0602IB1506 (ZH)
MasterPacT MTZ – Modbus Communication Guide	07/2022	DOCA0105EN DOCA0105ES DOCA0105FR DOCA0105ZH
MasterPacT NT/NW and PowerPacT P- and R-Frame – Modbus Communication Guide	07/2022	0613IB1313 (EN) 0613IB1314 (ES) 0613IB1315 (FR) 0613IB1316 (ZH)
PowerPacT H-, J-, and L-Frame Circuit Breakers – Modbus Communication Guide	05/2023	0611IB1302 (EN) 0611IB1303 (ES) 0611IB1304 (FR) 0611IB1305 (ZH)

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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

IO Module for One Circuit Breaker

The IO input/output application module for one circuit breaker (or IO module) is a part of an ULP system with built-in functionalities and applications.

The ranges of circuit breakers compatible with the IO module are:
- 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

The IO module resources are:
- Six digital inputs that are self-powered for either NO or NC dry contact or pulse counter.
- Three digital outputs that are bistable relays (5 A maximum).

The predefined applications can be configured using the rotary switch.

The user-defined applications can be configured using the EcoStruxure Power Commission software.

Firmware Release History

Date	Firmware version	Availability
August 2024	003.005.003	Release for manufacturing
October 2020	003.005.001	Obsolete
March 2019	003.004.005	Obsolete
April 2018	003.003.011	Obsolete
July 2017	003.002.009	Obsolete
December 2016	003.002.002	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 IO Module 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 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 003.005.003

Security Updates

Enhanced cybersecurity features.

Hardware Updates

The analog input is removed from the IO module and the cooling system user-defined application is not available.

Firmware Version 003.005.001

Bugs Fixed

The breaker operation from IO module was not possible after the firmware upgrade of the BCM ULP module.

Firmware Version 003.004.005

New Features

Added a new user-defined application: Alarm Indicators, to assign ground-fault alarm and earth-leakage alarm to digital outputs.

Bugs Fixed

- Digital output state was inconsistent due to the impact of shock and vibration on the output relays.
- IO module did not respond when IFE server or interface lost the SNTP connection.

Firmware Version 003.003.011

New Features

Added a new user-defined application: Inhibit Optional Protection, to allow inhibition of optional protection functions of the MicroLogic X control unit.

Firmware Version 003.002.009

New Features

Added a new feature to allow addition of two IO modules in position 9.

Bugs Fixed

IO module was reset to factory settings when exiting from Fallback mode.

Firmware Version 003.002.002

New Features

Added the compatibility feature with MasterPacT MTZ circuit breakers.

Bugs Fixed

- The input/output values of the IO module was freezed when the power supply was insufficient.
- When IO module was powered up with the circuit breaker being in the disconnected position, the cradle status was not reported.

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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