

# Enerlin'X IO Input/Output Application Module for One Circuit Breaker

Firmware Version 003.004.005

Release Note

03/2019



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When devices are used for applications with technical safety requirements, the relevant instructions must be followed.

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## Introduction

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

The IO module is compatible with the following ranges of circuit breakers:

- 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 bi-stable relays (5A maximum).
- One analog input for Pt100 temperature sensor.

Predefined applications are configurable with the rotary switch.

User defined applications are configurable with EcoStruxure Power Commission software.

## IO Module Firmware Release History

Date	Firmware version	Availability
March 2019	003.004.005	Release for manufacturing
April 2018	003.003.011	Obsolete
July 2017	003.002.009	Obsolete
December 2016	003.002.002	Obsolete

## Firmware Update Policy

If the latest features of a firmware update are not required, it is not mandatory to update the firmware of a device.

Use this release note to determine whether an update to the latest version of the IO Module firmware is interesting or relevant for your application.

For more information about 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

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 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 you 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.schneider-electric.com](http://www.schneider-electric.com).

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

## Firmware Version 003.004.005

### **New features in this firmware version:**

- Addition of new user-defined application: Alarm indicators, to assign ground-fault alarm and earth-leakage alarm to digital outputs.

### **Bugs fixed in this firmware version:**

- Impact of shock and vibration on output relays resulted in inconsistent digital output state.
- IO module did not always respond when IFE lost SNTP connection.

## Firmware Version 003.003.011

### **New features in this firmware version:**

- Addition of new user-defined application: Inhibit Optional Protection, to allow inhibition of the Micrologic X optional protection functions

## Firmware Version 003.002.009

### **New features in this firmware version:**

- Added possibility of adding 2 IO modules in position 9

### **Bugs fixed in this firmware version:**

- IO module was reset to factory settings when exiting fallback mode.

## Firmware Version 003.002.002

### New features in this firmware version:

- Added compatibility with Masterpact MTZ

### Bugs fixed in this firmware version:

- IO module Inputs/Outputs froze when the power supply was insufficient.
- When IO module was powered up with circuit breaker disconnected, cradle status was not reported.

## Related Documents

### Related Documents for IEC Devices

The following table lists documents valid for IEC devices that are compatible with an IO module with firmware version 003.004.005:

Title of documentation	Publication date	Reference number
<i>Enerlin'X IO– Input/Output Application Module for One Circuit Breaker – Instruction Sheet</i>	03/2018	<a href="#">HRB49217-05</a>
<i>Enerlin'X IO– Input/Output Application Module for One IEC Circuit Breaker – User Guide</i>	03/2019	<a href="#">DOCA0055EN-07</a> <a href="#">DOCA0055ES-07</a> <a href="#">DOCA0055FR-07</a> <a href="#">DOCA0055ZH-07</a>
<i>Compact NSX – Modbus Communication Guide</i>	03/2019	<a href="#">DOCA0091EN-06</a> <a href="#">DOCA0091ES-06</a> <a href="#">DOCA0091FR-06</a> <a href="#">DOCA0091ZH-06</a>
<i>Masterpact NT/NW, Compact NS – Modbus Communication Guide</i>	03/2019	<a href="#">DOCA0054EN-07</a> <a href="#">DOCA0054ES-07</a> <a href="#">DOCA0054FR-07</a> <a href="#">DOCA0054ZH-07</a>
<i>Masterpact MTZ – Modbus Communication Guide</i>	03/2019	<a href="#">DOCA0105EN-05</a> <a href="#">DOCA0105ES-05</a> <a href="#">DOCA0105FR-05</a> <a href="#">DOCA0105ZH-05</a>
<i>ULP System (IEC Standard) – User Guide</i>	03/2019	<a href="#">DOCA0093EN-04</a> <a href="#">DOCA0093ES-04</a> <a href="#">DOCA0093FR-04</a> <a href="#">DOCA0093ZH-04</a>

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## Related Documents for UL/ANSI Devices

The following table lists documents valid for UL/ANSI devices that are compatible with an IO module with firmware version 003.004.005:

Title of documentation	Publication date	Reference number
<i>Enerlin'X IO– Input/Output Application Module for One Circuit Breaker – Instruction Sheet</i>	03/2018	<a href="#">HRB49217-05</a>
<i>Enerlin'X IO– Input/Output Application Module for One UL Circuit Breaker – User Guide</i>	03/2019	<a href="#">0613IB1317-06 (EN)</a> <a href="#">0613IB1318-06 (ES)</a> <a href="#">0613IB1319-06 (FR)</a> <a href="#">0613IB1320-06 (ZH)</a>
<i>PowerPact H-, J-, and L-Frame Circuit Breakers – Modbus Communication Guide</i>	03/2019	<a href="#">0611IB1302-05 (EN)</a> <a href="#">0611IB1303-05 (ES)</a> <a href="#">0611IB1304-05 (FR)</a> <a href="#">0611IB1305-05 (ZH)</a>
<i>Masterpact NT/NW and PowerPact P- and R-Frame – Modbus Communication Guide</i>	03/2019	<a href="#">0613IB1313-06 (EN)</a> <a href="#">0613IB1314-06 (ES)</a> <a href="#">0613IB1315-06 (FR)</a> <a href="#">0613IB1316-06 (ZH)</a>
<i>Masterpact MTZ – Modbus Communication Guide</i>	03/2019	<a href="#">DOCA0105EN-05</a> <a href="#">DOCA0105ES-05</a> <a href="#">DOCA0105FR-05</a> <a href="#">DOCA0105ZH-05</a>
<i>ULP System (UL Standard) – User Guide</i>	03/2019	<a href="#">0602IB1503-02 (EN)</a> <a href="#">0602IB1504-02 (ES)</a> <a href="#">0602IB1505-02 (FR)</a> <a href="#">0602IB1506-02 (ZH)</a>

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