

BCM ULP Breaker Communication Module

Firmware Version 004.002.000

Release Note

05/2020



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All pertinent state, regional, and local safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components.

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

Failure to use Schneider Electric software or approved software with our hardware products may result in injury, harm, or improper operating results.

Failure to observe this information can result in injury or equipment damage.

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Introduction to BCM ULP Breaker Communication Module

Supplied with the circuit breaker, the BCM ULP module is installed behind the MicroLogic trip unit for MasterPact NT/NW, ComPact NS, and PowerPact P- and R-frame circuit breakers and is wired to the microswitches:

- For manually-operated devices:
 - OF, SDE, and/or SD contacts
- For electrically operated devices:
 - OF, SDE, PF, CH contacts
 - Connection kit to the MX1 and XF communicating voltage releases

The BCM ULP module is independent of the trip unit. It communicates two-way with:

- ULP system via the circuit breaker ULP cord
- MicroLogic trip unit via an infra-red link
- Modbus network

New Features and Benefits Overview

- Improved efficiency in handling event log using FC20 or Protection command 63178
- Optimized drift in trip cause and trip status
- Improved ERMS functionality

BCM ULP Firmware Release History

Date	Firmware version	Availability
May 2020	V004.002.000	Release for manufacturing
December 2017	V004.001.009	Obsolete
July 2017	V004.001.007	Obsolete
June 2016	V004.001.005	Obsolete
November 2015	V004.001.003	Obsolete
May 2015	V004.000.009	Obsolete

Baseline

A baseline in a product life cycle is a reference point marked by the completion and formal approval of a set of device versions.

BCM ULP firmware version V004.002.000 is baselined with the following device versions:

Range	Device	Part number	Firmware version
Enerlin'X	Enerlin'X IO - Input/Output Application Module for One Circuit Breaker	LV434063	V003.004.005
	Enerlin'X IFE - Ethernet Interface for One Circuit Breaker	LV434010	V003.010.005
		LV434001	
	Enerlin'X IFE - Ethernet Switchboard Server	LV434011 LV434002	
	Enerlin'X IFM - Modbus-SL Interface for One Circuit Breaker	TRV00210	V002.002.011
		STRV00210 LV434000	V003.002.006
	Enerlin'X FDM121 - Front Display Module for One Circuit Breaker	TRV00121	V002.003.005
		STRV00121	V003.000.022 and Product date code greater than or equal to WK18141
Enerlin'X FDM128 - Ethernet Display for Eight Devices	LV434128	V008.000.012	
BCM ULP – Breaker Communication Module	33106	V004.002.000 and Product date code greater than or equal to WX18205	
MicroLogic	MicroLogic A, E, P, H trip units for MasterPact NT/NW, ComPact NS, and PowerPact P- and R-frame circuit breakers	–	V8284
EcoStruxure Power Commission	EcoStruxure Power Commission – Digital Management of Electrical Distribution	–	V2.16

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 BCM ULP firmware is relevant for 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 Upgrade with EcoStruxure Power Commission Software

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

Use the latest version of EcoStruxure Power Commission software to:

- Check the firmware compatibility of the devices in the 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.

The latest version of Ecoeach software is available at www.se.com.

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

IO Module Synchronization after BCM ULP Firmware Update

 WARNING

LOSS OF IO MODULE CONTROL FUNCTIONS

After updating the BCM ULP firmware, restart each IO module, either by pressing the IO Test/Reset button for 10–12 seconds or by switching Off/On the power to the IO module.

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

Resolved Issues

Firmware version	Description
V004.002.000	<ul style="list-style-type: none"> Fixed the loss of communication issues between BCM ULP module and IFE or IFM interface resulting in communication loss with Modbus master. This was seen as Slave address 99 or incorrect IP address. Improved the data availability, retry mechanism, and error handling in case of communication errors. Improved the Modbus function code 100 – request handling.
V004.001.009	<ul style="list-style-type: none"> More efficient handling of multiple requests in BCM ULP module when requesting event log using FC20 or Protection command 63178 Reduction of the drift on reporting the trip cause and trip status
V004.001.007	<ul style="list-style-type: none"> Optimization of the ULP bus load management for the ULP metering services when communicating with the IFE interface Resolution of an internal reset issue that sometimes sent “Breaker status not available” to a supervisory system (for example, SCADA)
V004.001.005	<ul style="list-style-type: none"> BCM ULP module with MicroLogic P or H has alarm indication without tripping Ground-fault alarm and earth-leakage alarm detectors are displayed correctly for MicroLogic 6P, H, and MicroLogic 7P, H BCM 33106 with firmware V4.1.4 causes a reset when connected to a MicroLogic type D
V004.001.004	<ul style="list-style-type: none"> Improvements in sharing detectors for Micrologic alarms when MicroLogic is not connected BCM shares the earth-leakage alarm detector when connected to a MicroLogic 7.0 Improvement to prevent the ground-fault alarm being published when the Micrologic connected does not support the feature Improved the circuit breaker status mask data based on the connected circuit breaker Improved the actuator mask data based on the connected circuit breaker
V004.001.003	<ul style="list-style-type: none"> When connected to a non-communicating trip unit, the BCM degraded message is not published
V004.000.009	<ul style="list-style-type: none"> Maximum value of current in ERMS configuration value changed to 15 x In When instantaneous current equals ERMS current, ERMS mode is turned ON

Restrictions and Known Issues

There are no restrictions or known issues.

Related Documents

The following table lists documents updated for BCM ULP module with firmware version 004.002.000:

Title of documentation	Publication date	Reference number
<i>MasterPact NT/NW, ComPact NS, PowerPact P- and R-Frame Communication Option – Installation Manual</i>	04/2018	EAV3608000-03 (EN, ES, FR)
<i>ULP System (IEC Standard) – User Guide</i>	03/2019	DOCA0093EN-04 DOCA0093ES-04 DOCA0093FR-04 DOCA0093ZH-04
<i>ULP System (UL Standard) – User Guide</i>	03/2019	0602IB1503-02 (EN) 0602IB1504-02 (ES) 0602IB1505-02 (FR) 0602IB1506-02 (ZH)

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

If the document with the revision index is not available on our website, contact your Customer Care Centre to obtain it from the documentation repository.

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