

# PacT Series

## Service Interface for MasterPacT NT/NW, ComPacT, PowerPacT, and EasyPacT Circuit Breakers

### Firmware Release Notes

PacT Series offers world-class breakers and switches.

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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

## PacT Series Master Range

Future-proof your installation with Schneider Electric's low-voltage and medium-voltage PacT Series. Built on legendary Schneider Electric innovation, the PacT Series comprises world-class circuit breakers, switches, residual current devices and fuses, for all standard and specific applications. Experience robust performance with PacT Series within the EcoStruxure-ready switchgear, from 16 to 6300 A in low-voltage and up to 40.5 kV in medium-voltage.

## Document Scope

This document provides the firmware version history of Service Interface.

Use this document to determine whether an update to the latest version of the Service Interface is interesting or relevant for your application.

## Validity Note

This document applies to Service Interface used with MicroLogic™ trip units mounted in the following low voltage circuit breakers:

- MasterPacT™ NT/NW circuit breakers
- EasyPacT™ MVS circuit breakers
- ComPacT™ NS circuit breakers
- PowerPacT™ P- and R- frame circuit breakers
- ComPacT™ NSX 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 the existing range 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 the existing range ComPact NS and PowerPact P- and R-frame circuit breakers also. The exceptions are mentioned wherever applicable.

## Related Documents for IEC Devices

The following table lists documents for IEC devices compatible with the Service Interface with the latest firmware version.

<b>Title of documentation</b>	<b>Publication Date</b>	<b>Reference number</b>
<i>Service Interface for MasterPacT NT/NW, ComPacT, PowerPacT, and EasyPacT Circuit Breakers - User Guide</i>	09/2024	DOCA0170EN DOCA0170ES DOCA0170FR DOCA0170ZH
<i>MasterPacT NT - Circuit Breakers and Switch-Disconnectors from 630 to 1600 A - User Guide</i>	04/2016	51201116AA (EN) EAV16739 (ES) 51201115AA (FR)
<i>MasterPacT NW - Circuit Breakers and Switch-Disconnectors from 800 to 6300 A - User Guide</i>	06/2022	04443720AA (EN) EAV16740 (ES) 04443719AA (FR)
<i>MasterPacT NT/NW - Circuit Breakers and Switch-Disconnectors - Maintenance Guide</i>	12/2020	LVPED508016EN LVPED508016FR
<i>MasterPacT NT/NW - Basic and Standard End-User Maintenance Procedures</i>	06/2022	HRB16483EN HRB16483FR
<i>ComPacT NS - MicroLogic Trip Units - User Guide</i>	01/2022	DOCA0217EN DOCA0217ES DOCA0217FR DOCA0217ZH
<i>ComPacT NS - MicroLogic A/E Trip Units - User Guide</i>	01/2022	DOCA0218EN DOCA0218ES DOCA0218FR DOCA0218ZH
<i>ComPacT NS - MicroLogic P Trip Units - User Guide</i>	01/2022	DOCA0219EN DOCA0219ES DOCA0219FR DOCA0219ZH
<i>ComPacT NS - Circuit Breakers and Switch-Disconnectors - User Guide</i>	01/2022	DOCA0221EN DOCA0221ES DOCA0221FR DOCA0221ZH
<i>ComPacT NSX - Circuit Breakers and Switch-Disconnectors - User Guide</i>	06/2024	DOCA0187EN DOCA0187ES DOCA0187FR DOCA0187ZH
<i>ComPacT NSX - MicroLogic 5/6/7 Electronic Trip Units - User Guide</i>	06/2024	DOCA0188EN DOCA0188ES DOCA0188FR DOCA0188ZH
<i>EasyPacT MVS - User Manual</i>	07/2023	MVS21734



You can download these technical publications and other technical information from our website at [www.se.com/ww/en/download/](http://www.se.com/ww/en/download/).

## Related Documents for UL/ANSI Devices

The following table lists documents for UL/ANSI devices compatible with the Service Interface with the latest firmware version.

Title of documentation		Reference number
<i>Service Interface for MasterPacT NT/NW, ComPacT, PowerPacT, and EasyPacT Circuit Breakers - User Guide</i>	09/2024	DOCA0170EN DOCA0170ES DOCA0170FR DOCA0170ZH
<i>MasterPacT NT Low-Voltage Power/Insulated Case Circuit Breaker - User Guide</i>	06/2015	0613IB1209 (EN, ES, FR)
<i>MasterPacT NW Low-Voltage Power/Insulated Case Circuit Breaker - User Guide</i>	06/2015	0613IB1204 (EN, ES, FR)
<i>PowerPacT R -Frame Circuit Breakers - Instruction Bulletin</i>	06/2023	48049-243-04 (EN, ES, FR)
<i>PowerPacT P -Frame Circuit Breakers - Instruction Bulletin</i>	06/2023	48049-148-05 (EN, ES, FR)
<i>PowerPacT P -Frame Drawout Circuit Breakers - Instruction Bulletin</i>	06/2023	48049-336-02 (EN, ES, FR)
<i>PowerPacT H-, J-, and L-Frame Circuit Breakers with MicroLogic Trip Units - User Guide</i>	01/2020	48940-313-01 (EN, ES, FR)

You can download these technical publications and other technical information from our website at [www.se.com/ww/en/download/](http://www.se.com/ww/en/download/).

## 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 to Service Interface

## Overview

The Service Interface with part number LV485500 is a portable instrument designed for field testing.

The Service Interface is used:

- for configuration of Enerlin'X devices.
- for testing and configuration of MicroLogic™ trip units mounted in the following low voltage circuit breakers:
  - MasterPacT™ NT/NW circuit breakers
  - EasyPacT™ MVS circuit breakers
  - ComPacT™ NS circuit breakers
  - PowerPacT™ P- and R- frame circuit breakers
  - ComPacT™ NSX 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 the existing range 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 the existing range ComPacT NS and PowerPacT P- and R-frame circuit breakers also. The exceptions are mentioned wherever applicable.
- These new ranges are based on the same technical and dimensional architecture as that of the exiting range of circuit breakers.

EcoStruxure™ Power Commission (EPC) is a global software with test functions features for testing the circuit breakers and communication accessories through the Service Interface.

## Firmware Release History

The following table indicates the release history of Service Interface firmware.

Date	Firmware version	Availability
October 2024	001.001.049	Digital release in EcoStruxure Power Commission software
November 2023	001.001.040	Obsolete
July 2023	001.001.037	Obsolete
May 2023	001.001.035	Obsolete
April 2023	001.001.032	Obsolete
December 2022	001.001.030	Obsolete
November 2022	001.001.025	Obsolete
April 2022	001.001.019	Obsolete
January 2022	001.001.015	Obsolete
December 2021	001.001.012	Obsolete
October 2021	001.001.008	Obsolete

Date	Firmware version	Availability
August 2021	001.000.003	Obsolete
October 2020	001.000.001	Obsolete
August 2020	001.000.000	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 determine whether an update to the latest version of the firmware is relevant for your application.

For more information about the firmware update policy and the firmware compatibility between devices, refer to [DOCA0155EN MicroLogic Trip Units 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 001.001.049

#### New Features

Performance enhancement.

### Firmware Version 001.001.040

#### New Features

Alarm simulation for ComPacT NSX and PowerPacT H-, J-, and L-Frame circuit breakers.

#### Bugs Fixed

Rectification of a bug in the Earth leakage current (IVigi) trip detection.

### Firmware Version 001.001.037

- Addition of new registers.
- Motor variants for ComPacT NSX circuit breakers trip time correction.

### Firmware Version 001.001.035

#### New Features

Addition of devices compatible with Service Interface:

- MicroLogic trip units for ComPacT NSX circuit breakers
- MicroLogic trip units for PowerPacT H-, J-, and L- frame circuit breakers

### Firmware Version 001.001.032

#### New Features

Performance enhancement.

### Firmware Version 001.001.030

Integration of new registers.

## Firmware Version 001.001.027

### Bugs Fixed

The following bugs are fixed:

- Enhancement in protection settings on MicroLogic 4.2 trip unit in ComPacT NSX and PowerPacT H-, J-, and L- frame circuit breakers.
- Improvement of identification of the cable to be connected to the Service Interface.

## Firmware Version 001.001.025

### New Features

- The Service Interface can be used for updating firmware and testing the MicroLogic 5 A/E, MicroLogic 6 A/E, and MicroLogic 7 E trip units mounted in the following low voltage circuit breakers:
  - ComPacT NSX circuit breakers
  - PowerPacT H-, J-, and L- frame circuit breakers
- The Service Interface can be used for testing the MicroLogic trip units mounted in the following low voltage circuit breakers:
  - ComPacT NSX circuit breakers
  - PowerPacT H-, J-, and L-frame circuit breakers

The following tests can be performed through the Service Interface:

- Zone-Selective Interlocking (ZSI) test
- Preparation for primary injection tests
- The Service Interface can be used for updating firmware and configuring Enerlin'X devices.

### Bugs Fixed

- Refinement in communication during injection tests being performed.
- Rectification in trip time calculation.

## Firmware Version 001.001.019

### New Features

The Service Interface can be used for testing and configuring the MicroLogic 5 A/E, MicroLogic 6 A/E, and MicroLogic 7 E trip units mounted in the following low voltage circuit breakers:

- ComPacT NSX circuit breakers
- PowerPacT H-, J-, and L-frame circuit breakers

Automatic trip curve test with pre-configured test points can be performed through the Service Interface.

## Firmware Version 001.001.015

### New Features

- The Service Interface can be used for testing and configuring the MicroLogic 5.2 B and 5.3 B trip units mounted in the following low voltage circuit breakers:

- ComPacT NSX circuit breakers
- PowerPacT H-, J-, and L-frame circuit breakers

The following tests can be performed through the Service Interface:

- Automatic trip curve test with pre-configured test points
- Automatic trip curve test with custom test points
- The Service Interface can be used for configuring the MicroLogic 5 A/E, 6 A/E, and 7 E trip units mounted in the following low voltage circuit breakers:
  - ComPacT NSX circuit breakers
  - PowerPacT H-, J-, and L-frame circuit breakers

## Firmware Version 001.001.012

### Bugs Fixed

Automatic trip curve test did not trip MasterPacT NW4000b–6300 circuit breakers. Bug introduced in firmware version 001.001.008.

## Firmware Version 001.001.008

### Bugs Fixed

During automatic trip curve test on MicroLogic trip unit:

- Trip did not occur on the circuit breaker due to injection time out.
- Trip occurred but the trip time was not displayed properly.

## Firmware Version 001.000.003

### Bugs Fixed

- Algorithm was not able to support different Mitop coils.
- EcoStruxure Power Commission register mapping was incorrect for the circuit breakers manufactured prior to 2007.

## Firmware Version 001.000.001

### Bugs Fixed

Algorithm corrections were done to improve the test functions.

## Firmware Version 001.000.000

### New Features

The Service Interface can be used for testing the following MicroLogic trip units:

- non-communicating MicroLogic trip units
- communicating MicroLogic A, E, P, and H trip units

when they are mounted in the following low voltage circuit breakers:

- MasterPacT NT/NW circuit breakers
- EasyPacT MVS circuit breakers
- ComPacT NS circuit breakers
- PowerPacT P- and R- frame circuit breakers

The following tests can be performed using the Service Interface:

- Automatic trip curve tests
  - with preconfigured test points
  - with custom test points
- Zone-Selective Interlocking (ZSI) test
- Device check up (Force trip test)
- Preparation for primary injection tests:
  - Reset thermal memory
  - Inhibit ground-fault protection

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