Power Xpert Protection Manager
for Eaton PXR Trip Units

Quick Start Guide
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1. Introduction

Eaton’s Power Xpert Protection Manager (PXPM) is a Microsoft® Windows-based software that configures, controls and tests Eaton PXR trip units in Series NRX or Power Defense Breakers. This document guides users through the PXPM’s installation and usage.

2. Installation

2.1 System Requirements

Hardware Requirements
- Eaton PXR trip unit
- USB to Micro-USB cable
- Digitrip auxiliary power module (For PXR ACB Trip Units)
  - Catalog Number: PRTBAPMDV for U.S. power sockets
  - Catalog Number: DTAUXPMEU for European power sockets
  - Catalog Number: DTAUXPMUK for U.K. power sockets

Software Requirements
- Microsoft® Windows 7 or 10 (32-bit or 64-bit)
- Adobe® Acrobat Reader (version 5 or higher).

Screen Resolution
- 1280x1024 pixels or higher resolutions

2.2 Installing Power Xpert Protection Manager

Double click “Power Xpert Protection Manager x32.exe” file for Windows 32-bit Operating System or “Power Xpert Protection Manager x64.exe” file for Windows 64-bit Operating System to launch Power Xpert Protection Manager Installation wizard. Depending on computer’s User Account Control settings, a dialog box similar to the one shown in Figure 1 may appear. Please verify that Eaton Corporation is the publisher, and click Yes to proceed with installation.

Figure 1: User Account Control for Power Xpert Protection Manager Installer
During the installation, the wizard installs USB device drivers. These device drivers allow Power Xpert Protection Manager to communicate to PXR trip units. In Figure 3, click Install to proceed with the USB device driver installation.
Figure 4: Power Xpert Protection Manager Installer – MCCB Drivers #2

Figure 5: Power Xpert Protection Manager Installer – MCCB Drivers #3
All PXR trip units need to be disconnected from the computer during the installation. Check the box in Figure 7 to confirm this before proceeding to the next step.
Figure 8: End-User License Agreement

Figure 9: Installation Location
After the installation is successfully completed, a Power Xpert Protection Manager icon is created in the Start menu under Eaton Corporation folder.
3. Power Xpert Protection Manager Main Screen

The Power Xpert Protection Manager provides several features to communicate to the PXR trip units. (Figure 11). User may choose any of these features by clicking on the button. If the button is disabled then the trip unit is not connected or does not support that function.

![Power Xpert Protection Manager Main Screen](image)

Figure 11: Power Xpert Protection Manager Main Screen

3.1 Connect
The user can connect a PXR Trip Unit using a USB Cable. When the user clicks on the Refresh button the PXPM software scans the computer to identify any PXR trip units that are connected. If there is one PXR Trip unit connected the connected device will appear in the Connect box. If there are more than one PXR Trip Units connected all connected PXR Trip Units will be located in the Connect box.

3.2 About
User will find the Power Xpert Protection Manager Version in this location. It is recommended that the user keep up to date with the latest version of PXPM.

3.3 Change Language
Power Xpert Protection Manager allows user to change interface language. To do so, click Change Language button, and select the language of your choice. Figure 12 shows Power Xpert Protection...
Manager startup screen in simplified Chinese.

Figure 12: Power Xpert Protection Manager Main Screen in Simplified Chinese
4. Setpoint Configuration

The Setpoint Configuration section provides four main features (Figure 13).

1. **New Offline Settings**: Create, modify and save setpoint configurations without connecting to a PXR trip unit.
2. **Open Settings**: Open, modify and save existing setpoint configuration files (.pxset) from the computer.
3. **Connect to Unit**: Import and modify PXR trip unit’s existing setpoints. The trip unit must be powered up and connected to the computer through a USB to Micro-USB cable.
4. **Export to Unit**: Export setpoints from an existing setpoint configuration file (.pxset) to a PXR trip unit. The trip unit must be powered up and connected to the computer through a USB to Micro-USB cable.

![Setpoint Configuration Screen](Image)

Figure 13: Setpoint Configuration Screen
4.1 New Offline Settings

To create a new offline setting, click **New Offline Settings** button on the startup screen (Figure 13). User can create new offline setting for either an PXR ACB Trip Unit or a PXR MCCB Trip Unit.

![Create New File](image)

**Welcome to Power Xpert Protection Manager new file wizard**

DeviceType: ACB

Next  Close

Memo

Please fill your memo.

Figure 14: New Offline Settings Screen

Note that connection to a PXR trip unit is not needed when using **New Offline Settings** feature. Click **Next** button in, a configuration screen similar to one shown in Figure 14. Figure 15 with trip unit type, style and other settings selected will be shown.
The configuration screen allows users to view and edit setpoints. Figure 15 shows configuration screen in online mode when **Connect to Unit** is selected. A configuration screen similar to Figure 15 is also shown when **New offline setting** or **Open Settings** is selected.

1. **View and Edit Setpoints**: For each setpoint, its range, step size and description are shown in the tooltip when a user hovers the mouse cursor over that setpoint. A blank space for a setpoint indicates that user may work in offline mode, and cannot edit the read-only setpoint.

2. **Change Trip Unit**: Takes user back to Create New Offline Setting Screen to modify trip unit’s settings.

3. **Save** (visible in **Open Settings**): Saves changes in setpoints. Note that if setpoints have already been saved to a file, click **Save** button will overwrite the file with new setpoints.

4. **Save As**: Saves setpoints to a configuration file. Users will be prompted to select a location and a name for the configuration file.

5. **Export**: Exports setpoints to a trip unit. The trip unit must be connected to the computer for successful operation.

6. **Curves**: Shows graphical representation of setpoints. It displays long and short delay protection curves, as well as ground (earth) and instantaneous protection curves.

7. **Change Summary** (valid only in **New Offline Settings**): Displays a summary of setpoints that have been changed in the present session. Both original and changed values are displayed.

8. **Extract to PDF**: Exports all setpoints to a portable document format (PDF) file. Modified setpoint parameters are highlighted in the exported PDF file (Figure 16).

9. **Undo All Changes**: Resets all setpoints to their original values.

![Figure 16: Example of a Change Summary Report](image-url)
4.2 **Open Settings**
To open a previously saved configuration file, click *Open Settings* button in Figure 13, and follow the prompted message to choose a configuration file to open. If a valid configuration file is selected, a configurations screen similar to the one shown in Figure 15 displays saved setpoints.

4.3 **Connect to Unit**
To connect to a PXR trip unit, a USB to Micro-USB cable must be used. Note that the USB to Micro-USB cable cannot be a charge-only cable.

The trip unit must be powered up and running prior to using the “Connect to Unit” feature. A PXR trip unit auxiliary power module (Catalog Number: PRTBAPMDV for U.S. power sockets, DTAUXPMEU for European power sockets, or DTAUXPMUK for U.K. power sockets.) may be optionally used to power up an ACB trip unit, as shown in Figure 17.

In Figure 17, the standard USB end is connected to a computer’s USB port. The Micro-USB end of the cable is connected to the Micro-USB port of the trip unit. Then click *Connect to Unit* button in Figure 13.

![USB to Micro-USB Cable and PXR Trip Unit](image)

Figure 17: USB to Micro-USB Cable and PXR Trip Unit.

4.4 **Export to Unit**
*Export to Unit* exports setpoints from an existing setpoint configuration file (.pxset) to a PXR trip unit. It involves overwriting the trip unit’s existing setpoints with new values. To prevent users from unintended overwrites, a dialog box similar to the one shown in Figure 18 is displayed to prompt the user to create a backup file of the trip unit’s existing setpoints before overwriting.
Selecting **Yes** in Figure 18 allows the user to save the trip unit’s existing setpoints in a backup file. Selecting **No** will skip the backup file and proceed to the next step.

The application then verifies that the trip unit style, rating and other selections in the setpoint configuration file match those in the connected trip unit. Upon a successful match, the setpoints will be exported to the trip unit.

In case that the user has created a backup file, and wants to restore the trip unit to the settings stored in the backup file, click **Export to Unit** button from the Setpoint Configuration Screen (Figure 13), and choose the backup file to restore the trip unit to its previous settings.

![Create Backup Configuration File Screen](image)

Figure 18: Create Backup Configuration File Screen
5. Control Mode

The Control Mode section allows user to reset trip unit, change trip unit date and time, and capture waveforms.

Figure 19: Control Mode Options Screen
5.1 **Reset Trip Unit**
The PXR trip unit keeps an internal record of causes of trip, diagnostics and metering data. In **Control Mode**, user can select and clear individual record by clicking **Reset Trip Unit** button (Figure 20). Each session allows user to reset one record. A new session is needed to reset a separate record.

![Figure 20: Reset Trip Unit](image)

**Figure 20: Reset Trip Unit**
5.2 Change Trip Unit Date and Time

The PXR trip unit has an internal clock that keeps track of time. In Control Mode, user can modify this clock by clicking the Date and Time button. Use mouse cursor to select date and time, and then click Update button to apply the date and time to the trip unit (Figure 21).

![Figure 21: Change PXR Trip Unit’s Date and Time](image-url)
5.3 Capture Waveform

PXR trip units allow user to manually capture current and/or voltage waveforms. To do so, in Control Mode, click Capture Waveform button. PXR trip unit then captures a full-cycle of waveforms, and transfers them for display on the Power Xpert Protection Manager software.

In Figure 22, user can choose which waveform(s) to display by selecting or deselecting desired waveform(s) from the right side of the screen. Click Capture Waveform button will capture and display a new full-cycle of waveforms. Click Back button to return to Control Mode.
6. Test Mode

The PXR trip units allows the user to perform LSIG, Maintenance Mode and Current Sensor tests. Click **Test Mode** button to perform test operations.

The user will be prompted to confirm that the breaker is in a de-energized system or in a Test/Disconnected position.

Testing may only be performed when the device is carrying less than 5% or rated current.

Before any testing occurs the existing trip unit settings are captured for future use.

![Test Parameters Selection](image)

Figure 23: Test Parameters Selection

The PXPM software controls the testing of long delay trip, short delay trip, instantaneous trip, maintenance mode, and ground (earth) fault trip via the USB communication. The software allows for testing on any phase including neutral. The trip unit’s display is used to observe the current being injected and the elapsed time until trip.

The PXR trip unit has two built-in functional test modes available for use. One is an internal simulated current test and the other is an internal secondary injected current test. Either mode can be configured for opening or not opening the breaker.
The Simulated test is an easy test to verify multiple points on the Time-Current curve. The test current values are injected into the software algorithms to precisely verify the accuracy of the trip unit.

For the Secondary Injection testing the trip unit uses an independent built in circuit to generate a test signal which is injected into the sensor input circuit. This test feature replaces the need for an external secondary injection test kit.

The PXPM software provides an additional mode that can test for continuity of each current sensor for some PXR Trip Units that support this feature. This includes the neutral sensor on the ACB Trip Units. The PXPM software will test the neutral connection whether or not there is a sensor installed.

If this is the first test performed in Test Mode, then the Power Xpert Protection Manager prompts the user to enter the password from the PXR trip unit (Figure 24 or Figure 25).

![Figure 24: Prompt to Enter Password #1](image)

![Figure 25: Prompt to Enter Password #2](image)
The user needs to enter the password from the PXR front panel using ▲, ▼ and ◄ buttons (Figure 26). The factory-default password is 0000.

![Figure 26: Enter Password from Trip Unit’s LCD](image)

Note that the correct password only needs to be entered once in a test session. If the user fails to enter the correct password, then both trip unit and Power Xpert Protection Manager Software will timeout after about 2 minutes.

After entering the password and after the completion of the test on the trip unit, the test result screen similar to one displayed in Figure 27 will be displayed. Information on the test result screen will vary based on type of test. For the Current Sensor test, the test result screen will display the continuity status of each phase.
On click of the **Continue Testing** button, the Test parameter selection screen (Figure 23) will be displayed. Use the **Stop Testing** button to exit the test session. The user can then view and adjust final settings. (Figure 28).

Parameter values for “As Found” are captured at the beginning of test operation, just before user selects test features for the first time, in a test cycle. Parameter values for “As Left” are captured when the Test operation is stopped. Any difference between “As Found” and “As Left” parameter values will be highlighted. Any adjustments to a parameter value on the trip unit side is reflected under “As Left” column when “Reload Settings” button is clicked.
The **Reload Settings** button will display changes in the trip unit setpoint values. Click the **Next** button to complete the test and start report generation (Figure 29).

Pressing the **Generate Report** button will display the User inputs screen (Figure 30). This screen allows the user to input information regarding the customer and breaker’s location, environment, condition, etc. All of this information is optional.
Figure 30: Test Report User Input

Information entered on the User Input screen will be displayed on the report in the respective sections (Figure 31).

Click on the View Report button to generate a PDF report for the tests performed. The Test report will display the User Input data, the settings and results for all conducted testing, and a table of As Found / As Left settings.

Every Parameter/Configuration Settings table is followed by a Test Results table. Any change in settings will be displayed in a new table followed by any results for the tests performed at those settings.

Parameter values for System and Current Protection Configuration are captured at the beginning of the test session (As Found) and after the click of Next button on the As Found / As Left Screen (As Left). These parameter values are displayed at the end of report.
**Power Xpert Protection Manager Quick Start Guide**

**Trip Units - Test Report**

### Customer Information

- **Customer Name:**
- **Plant Location:**
- **Site Name:**

### Device Summary

- **Manufacturer:** Eaton
- **Circuit Breaker Type/Model:** PXR NT - 225016
- **Circuit Breaker Serial Number:**
- **Circuit Breaker Frame Rating (A):** 500
- **Electronic Trip Unit Model:** PXR25V008LAMG
- **Electronic Trip Unit Serial Number:** Z
- **Electronic Trip Unit Input:** 300 A
- **Voltage Class:**

### Frequency

- **Circuit Breaker Location:**
- **Room/ward/witchgear:*
- **Call:**

### Environment Data

- **Temperature:**
- **Humidity:**

### Equipment Condition

- **Current Breaker:**
- **RTU:**
- **Enclosure:**

### Protection / Configuration Settings #1

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Setting</th>
<th>Parameter</th>
<th>Setting</th>
<th>Parameter</th>
<th>Setting</th>
<th>Parameter</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Mode</td>
<td>Off</td>
<td>MM Trip Level</td>
<td>4.0 x In</td>
<td>SDO</td>
<td>5.0 x In</td>
<td>GFT</td>
<td>Flat</td>
</tr>
<tr>
<td>LDTM</td>
<td>Off</td>
<td>LDS</td>
<td>0.30 s</td>
<td>SDS</td>
<td>0.30 s</td>
<td>GFT</td>
<td>Flat</td>
</tr>
<tr>
<td>LDPF</td>
<td>0.90 x In</td>
<td>INST</td>
<td>12 x In</td>
<td>GFT</td>
<td>0.2 s</td>
<td>NFR</td>
<td>Off</td>
</tr>
<tr>
<td>LDT</td>
<td>1 s</td>
<td>EDI</td>
<td>Off</td>
<td>NFR</td>
<td>Off</td>
<td>NFR</td>
<td>Off</td>
</tr>
<tr>
<td>LDPF</td>
<td>1 s</td>
<td>EDI</td>
<td>Off</td>
<td>NFR</td>
<td>Off</td>
<td>NFR</td>
<td>Off</td>
</tr>
<tr>
<td>LDT</td>
<td>1 s</td>
<td>EDI</td>
<td>Off</td>
<td>NFR</td>
<td>Off</td>
<td>NFR</td>
<td>Off</td>
</tr>
</tbody>
</table>

### Maintenance Mode Test Results #2

<table>
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<tr>
<th>Test Settings</th>
<th>Parameter</th>
<th>Multiple</th>
<th>Type</th>
<th>Cause</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase B</td>
<td>1120</td>
<td>6.5 A</td>
<td>Above</td>
<td>15 min</td>
<td>Trip</td>
</tr>
</tbody>
</table>

### Current Sensor Test Result

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Type</td>
<td>Neutral</td>
</tr>
</tbody>
</table>

### System

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Type</td>
<td>Neutral</td>
</tr>
<tr>
<td>Line Type</td>
<td>Neutral</td>
</tr>
</tbody>
</table>

**Figure 31: PDF Test Report**
7. Breaker Information

![Figure 32: Breaker Information Screen](image)

The **Breaker Information** screen displays information pertaining to the PXR Trip unit such as Serial Number and Manufacturing Dates.
8. Real Time Data

The **Real Time Data** Screens provides information pertaining to all status and metered data from the PXR Trip unit. The user can select the tabs along the side of the screen to select different data to be displayed. Not all features are supported in all PXR Trip Unit styles.

1. System PSC and Status
2. I,V,P, Temperature, Battery
3. Energy
4. Power Demand
5. Peak Power Demand
6. Min/Max Current
7. Min/Max Voltage Line to Line
8. Min/Max Voltage Line to Neutral
9. OneCycle Current
10. Diagnostics External
9. Event Summaries

9.1 Event Summary
The PXR Trip Units record several different events. The Event Summary lists up to 200 events that have occurred in the PXR Trip Unit.

9.2 Trip Events and Alarm Events
The PXR Trip unit will record more detailed information for the 10 most recent Trip Events and Alarm Events. The Primary, Secondary and Cause of Status will be listed on the Main Screen (Figure 34). More detailed information can be displayed by selecting one of the events and clicking on the Detail View (Figure 35).

Figure 34: Event Summary Screen
Figure 35: Trip or Alarm Event Screen

Figure 36: Trip or Alarm Event Detail Screen
9.3 **Time Adjustments**

The PXR Trip Units have a real time clock that is used to timestamp events. The PXPM software provides the ability to set the time on the real time clock. Any time the real time clock is set the PXR trip unit records this as an event. The Time Adjustments Screen will display any events where the real time clock has been set.

![Figure 37: Time Adjustment Screen](image-url)
10. **Password**

The PXR Trip Units contain a password that is required to change Setpoints, perform testing or other activities. The PXPM provides the ability to enter the password in the software instead of on the PXR Trip unit LCD display. The user also has the ability to change the password in the PXR Trip Unit by using the Set Password feature.

10.1 **Verify Password**

![Verify Password Screen](image)

**Figure 38: Verify Password Screen**

10.2 **Set Password**

![Set Password Screen](image)

**Figure 39: Set Password Screen**
### 11 Reports

This screen allows the user to print any or all reports. It will use any data previously received from the connected device. If there is data needed that has not been read from the device the PXPM will read the data when the report is generated. This can take a substantial amount of time depending on the amount of data that needs to be read.

All data will be retained in the program for the duration of the connected session. If the user connects a different device or exits and reopens the PXPM then all previous data will be lost.
12 License

The PXPM Testing Features provides the User with 5 testing trials. In order to enable unlimited testing the User must purchase a Testing License.

12.1 Request Test License

The first step in the process is to generate a License request file. The User should select the License Request button on the screen and click OK. The User should save the generated file to their computer. The User must contact Eaton and provide the License Request File.

![License Request Screen](image)

Figure 41: License Request Screen

12.2 Install License

After the User requests a License from Eaton. Eaton will provide a License file that must be installed. The User should select Install License and Click OK. The PXPM will ask for the License File location. Once completed the Screen will indicate that the license is installed correctly.
Figure 42: Install License Screen

Figure 43: License Installed Screen
13 Download Language

The MCCB PXR Trip Units have the ability to display different languages. Therefore the PXPM provides the ability to see what languages are installed in the PXR Trip units as well as the ability to download additional languages. The additional languages are available on Eaton’s website.

13.1 Language Status

The Language Status screen (Figure 44) will display all installed languages in the MCCB PXR Trip Unit. There are 4 standard languages installed (English, Chinese, German, Spanish) with an additional 2 languages slots available.

![Language Status Screen](image)

13.2 Download New Language

The User can download language packs from Eaton’s website and use the screen in Figure 45 to download a new language into the MCCB PXR Trip Unit.
**Figure 45: Language Download Screen**

<table>
<thead>
<tr>
<th>Language Selector</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Select Language for download</strong></td>
</tr>
<tr>
<td>Select Language File</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>