

RELEASE NOTES for Power Distribution Monitoring & Control powered by PXG1000  
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These release notes are provided as a guide to Power Distribution Monitoring & Control Powered by PXG1000.  
This document is not intended to be all-inclusive.

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1.0 Product Description

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The Power Distribution Monitoring & Control PXG1000 is the user portal to Eaton’s Switchgear, small switchboards and panelboards.  
The PDMC PXG1000 provides the user with a touch screen interface showing the switchgear elevation and one-line diagram views of the switchgear line-up.  
The factory configured PDMC-PXG1000 will arrive at the customer site with all communicating switchgear devices connected and communicating.  
A local touchscreen HMI mounted on the wall or in a kiosk with line of sight

visibility of the switchgear line-up will enable the end user to monitor, diagnose, and control switchgear devices from a safe location outside the arc flash boundary.

The Power Distribution Monitoring & Control PXG1000 provides following features:

- Software provides three modes of operation i.e. Monitoring, Control, and Configuration modes

Monitoring:

- Elevation view to monitor the complete Motor Control Center or switchgear line-up, showing the status of all circuit breakers (opened, closed, tripped), contactors, motors, and the bus status (energized or de-energized).
- Dynamic One-Line Diagram Views for LVA and MVA switchgear and Low Voltage Motor Control Centers
  - Auto-synchronize Views(Elevation and Oneline)
  - Card View to show communicating switchgear devices connected.
  - Compartment view details for all the devices in an MCC bucket.
  - Timeline View that displays the sequence of events for the MCC or switchgear line-up. Events include alarms, device status changes and service or maintenance items.
  - Device Details View that displays the Status, Maintenance, Timeline, Trends of top 4 parameters, Documentation for the selected device
  - Alarm Details screen that displays the alarm information for the selected device
  - Monitor communication health for each individual smart component & alert on communication failure
  - Export Timelines, Trends, etc. to .csv file(s)

Control Mode:

- Access to authorized users only.
- Enter control mode from Elevation, One-Line, Devices, or Transfer screens.
- Request confirmation, including PPE acknowledgement.
- Control operations supported - Open/Close breaker, Enable/Disable ARMs mode

Configuration Mode:

- Access to authorized users only.
- Import switchgear configuration data from a file generated by Bidman/Design Automation systems at the assembly plants.
  - Wizards for ease of configuration of motor starter and drive buckets
  - Create or edit screens like elevation view, one-line diagram view etc.
  - Provision to configure the alarm/warnings settings
  - Manage user accounts
  - Allow customers to enter procedures and PPE requirements.
  - Provision to set parameter values into the communicating devices
- Access to Switchgear and device documents from the Docs tab on the Navigation menu
- A help document explaining the usage of the Power Xpert Dashboard Processor
- Remote Connectivity on the HMI by accessing the IP address of the PXDBP remotely.
- Transfer Scheme

- Standard implementation of MTM and MM transfer schemes that uses the ELC PLC as the logic controller and the HMI for configuring, monitoring and manual transfer initiation.
- Supports both Open and Closed Transition types.
- Support for both Automatic and Manual transfer and re-transfer modes.
- Select to Trip which is a manually initiated closed transition transfer.
- Allows selection of the preferred source of power if both sources are available.
- Ability to configure the Transfer Scheme system level settings and the PLC parameter settings.

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## 2.0 System Requirements

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In order to use this software pre-requisites are:

- PDMC PXG1000 Processor.
- Optional windows based 21'' and 15'' HMI with chrome installed (To access application on 21'' and 15'' HMI)
- Optional ESA Android based 7" HMI v 1.0.62 with Webview and chrome installed (To access application on 7" HMI)
- Adobe® Acrobat Reader (version 5 or higher)
- Ethernet cable to communicate over Internet.

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## 2.1 Supported Browsers

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The PDMC PXG1000 Processor is viewable using any HTML5 compliant browser with local or network access

Chrome is recommended for the best user experience.

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## 3.0 Compatible Devices

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The PDMC PXG1000 Processor will focus on LVA and MVA switchgear and LV Motor Control Centers with Eaton Protection and Metering products

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## 4.0 New Features and Fixes

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VERSION PDMC\_PXG1000\_2025.6.1 (July 2025)

# New Feature Addition:

- Added minimal dataset support for PXR 20/25 MCCB and PXR ACB on Magnum Protection devices for faster polling.
- Online device data, including alarms, is now stored to the cloud when a change event is triggered and on every login.

# Improvements & Bug fixes:

- Recovery Mode Enhancement: Recovery mode now uses a fixed 60-second timer instead

of ping-based triggers, ensuring consistent access even under restricted network conditions.

- On session timeout, elevated users are automatically logged out, and Access Point-enabled users are re-logged in.
- Open Breaker Control Command failure for MCCB PD2.
- Devices Card View: missing control toggle on application refresh.
- Setpoints: Highload 1 and Highload 2 dependencies for PXR ACB-Magnum & PXR35 devices are not getting triggered.
- Online Widgets: Abbreviated names not displayed.
- Docs:
  - Overlapping text in Add Doc (Manuals) for LVMCC.
  - Unable to upload documents for non-communicating devices.
- LVMCC Elevation: Unsaved changes pop-up appears multiple times.
- Add Existing Device modal: Sort By device type does not work.
- Users can configure screens as default activity which are not available in the navigation menu.
- Selected Unit conversion is not getting applied on Settings alarms screen.
- Modbus TCP Communication: Communication with Gateway fails even when valid trusted hosts are listed and "Trusted Only" is enabled.
- Descriptions are missing in the All Channels stack for Static Channels.

#### # Features Affected

- Device Card view
- Device Setpoints
- Device Tree
- Online
- Elevation
- Control Command Operations
- All Channels Screen
- Docs

VERSION PDMC\_PXG1000\_2025.3.1 (April 2025)

#### # New Feature Addition:

- BLR CM and PXQ device support added for Modbus RTU.

#### # Improvements & Bug fixes:

- Made improvements to HRG alarm.
- Added Exertherm device alarm support.
- Fixed non communication issue for AQD EDS devices connected on the same port as AQD.
- Fixed issue where Digitrip device addresses were displayed in decimal format instead of hexadecimal when editing in the Add Device modal

#### # Features Affected

- Device Card view
- Device Tree
- Online
- Elevation
- Timeline

#### VERSION PDMC\_PXG1000\_2024.12.1 (December 2024)

##### # New Feature Addition:

- Added PXE1 & PXE2 device support.
- Added Exertherm Transformer Data card & Exertherm Bus Duct Data card support.
- Implemented Infrasensing Alarm Algorithm.
- Added USB INCOM support.
- Added PXR35 Device 6 Digit Password support.

##### # Improvements & Bug fixes:

- Updated to PX Red Toolkit platform 4.10.
- INCOM devices Setpoints Trip Curves optimized.
- Updated EULA with External Libraries.
- Issued fixes for 10" inch HMI.
- Highchart export image issue.
- INCOM Device addition issue to disable addition of more than 50 devices.
- Issue with Disable ARMS Modal not displayed on control toggle.

##### # Features Affected

- Trend Viewer
- Setpoints stack
- Waveform list
- Device Card view
- Online
- Elevation

#### VERSION PDMC\_PXG1000\_2024.10.1 (October 2024)

##### # New Feature Addition:

- Added LV-HRG device support
- Added InfraSensing sensors support
- Added PXR35 device support with setpoint feature

##### # Improvements & Bug fixes:

- Added 10 seconds delay before Open/Close/Remote Racking commands execution for operator to step away from the assembly
- Error message was getting displayed instead of success message while performing open,close breaker commands for elevated user on 21" HMI
- Incorrect power factor value display for PXR 2.0 above & Magnum device
- Transfer Scheme bug fixes for elevated user
- Transfer tab visibility for auto login of viewer user
- Few channel values of downstream assembly not getting displayed on online sidebar
- Virtual keyboard not working on some screens on HMI

##### # Features Affected

- Online
- Elevation
- Transfer Scheme

VERSION PDMC\_PXG1000\_2024.5.1 (May 2024)

# Initial release based on combined code of PDMC Enhanced, PDMC Basic and PXG900

# New Feature Addition:

- Licenses for Enhanced graphic and External device support
- SNMP
- Certificate Management

VERSION PXG1K\_PDMC\_2023.10.2 (December 2023)

- Improved Bootloader to speed up network connectivity after a reboot

VERSION PXG1K\_PDMC\_2023.10.1 (October 2023)

# Initial release based on PDMC\_2023.9.2 from September 2023

These features differ from the PDMC\_2023.9.2 version:

- Unique default password based on S/N
- Hardware Version changed from PXDBL to PXG1000
- New factory reset functionality - refer to Quick Start Guide

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## 5.0 Recommendations

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- After a firmware update, a user having Change Settings permission should login first.
- If You are updating from version of Chrome older than 104.X.X, you should update the Firmware and reinstall the CA certificate.

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## 6.0 Known Issues

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- While Enabling/Disabling ARMS on a breaker which does not have feeder wire connected to it, the compartment name is not displayed in the dropdown.  
Workaround: Do not select any option from the 'Enable ARMS On' dropdown & just click the Enable/Disable button to enable/disable ARMS.
- PXM1300 IO module details are not getting displayed for COM and Network port.  
Workaround : User need to refresh application to get IO module details.
- For EDR3000/5000 devices, IO channel description is not getting displayed on all channel stack.  
Workaround : User needs to remove and re-add the device to get the description on all channel stack for EDR3000/5000 devices.
- On Settings Device Tree screen, when user clicks on a device and navigates to the

Device Element stack, PDMC Virtual device details are displayed.

Workaround: User needs to remove and re-add the device to obtain valid device configuration details.

- Executing the Reset Trip command from Oneline sidebar pocket might not update the breaker status on Transfer screen.

Workaround: User needs to reset the trip manually on the breaker.

Updated 07/31/2025