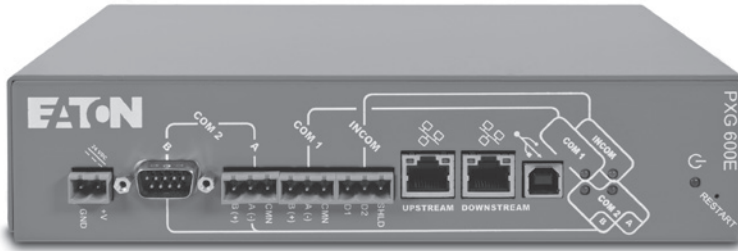


Power Xpert Gateway 600E



Delivers real-time, Web-enabled monitoring of electrical distribution and control equipment

Product snapshot

The Power Xpert® Gateway 600E is typically installed in an electrical assembly – a motor control center, low/medium voltage switchgear or switchboard to consolidate data available from components such as trip units, meters, motor controllers and protective relays.

Product overview

- Open communication architecture
 - Connects to both Eaton® and third-party electrical equipment; communicates to INCOM, QCPort and Modbus RTU devices
 - Modbus TCP, SNMP and BACnet/IP support facilitates integration with third-party monitoring solutions
 - Ethernet/web based support utilizes your existing network infrastructure, reducing costs
- Flexible and expandable solutions
 - Stand-alone or small systems benefit from comprehensive, on-board Web pages; no additional programming or software is necessary for virtually out-of-the-box, plug-and-play functionality
 - Larger systems, such as campus installations or power systems with remote locations can view multiple PXGs via Power Xpert Software or a third-party monitoring system

- Existing equipment can be connected to the PXG to reap the benefits of Power Xpert Architecture at minimal cost, without the need to upgrade
- Systems are easily expanded by adding devices as needed; the PXG 600E supports up to 96 devices
- Information at a glance
 - Using a standard Web browser, view the PXG's Web pages that include a system summary status page and individual device detail pages
 - Comprehensive, well-organized device Web pages present measured parameters such as current, voltage, power, energy, frequency, power factor and voltage THD, just to name a few
 - Combine with Power Xpert Software for viewing multiple gateways and other power system equipment for more extensive power quality analysis
 - KYZ equipped meter applications allowing WAGES metering utilizing DIM

Monitoring energy in a networked world

Through standard onboard Web pages, Power Xpert Software or third-party software, Eaton's Power Xpert Gateway (PXG) 600E allows you to closely monitor the performance of your energy efficiency with easily accessed, real-time, Web-enabled data. Eaton's PXG 600E provides a central point to connect up to 96 devices to an Ethernet network. The gateway may be used as a stand-alone device to view one system or location, or it can be easily integrated into a large, multi-location system.

The PXG is our data acquisition solution for facility equipment like switchgear, switch boards, motor control centers, etc. Energy data from the downstream devices are time stamped and stored in non-volatile memory. This interval data can be stored or updated to a destination of the users choice through CSV. Data can also be accessed through any Web browser directly on the PXG. Users can move data into Power Xpert Software, BMS, NMS, building dashboards, custom software applications, or virtually any Web interface.



Powering Business Worldwide

Features and benefits

Rugged, industrial design

- Designed specifically for industrial environments, the PXG has a compact, metal case that only requires convection cooling
- Stringent EMI design requirements ensure that the PXG will function in the most difficult EMI situations to deliver high reliability
- Mounting options are provided for panel mounting or DIN rail, allowing for installation flexibility

Smart configuration and user interface

- As an out-of-the-box, plug-and-play device, there is no additional software required to configure and view downstream devices
- All configuration menus are straightforward and easy to follow
- Upon configuring the PXG and associated devices, the data will automatically appear in the Web UI when you point your browser to the IP address of the PXG

Enclosed Version

- Cost effective solution to add communications to new or existing equipment that has no physical space to install the PXG-E in the equipment structure
- NEMA 12 Enclosure rating
- Prewired with a ELC-PS02 power supply and Terminal Blocks for ease of wiring of incoming power and connected devices

Three operational modes

The Power Xpert Gateway can operate in three modes, simultaneously if required, providing flexibility for varying protocols, devices and systems. While the Power Xpert Gateway can operate in each mode, Eaton recommends the entire solution be considered when choosing which gateway to use. For example when requiring only a “pass through” mode, the PXG 400E may be a better fit. For further details of each operational mode, see user manual. For a graphical representation of each mode, see Figure 1.

1. INCOM Pass-Through Mode (EMINT Mode)

INCOM Pass-Through Mode allows data from INCOM serial devices to flow directly through the gateway to be viewed in PowerNet software for logging and consolidation with other connected devices.

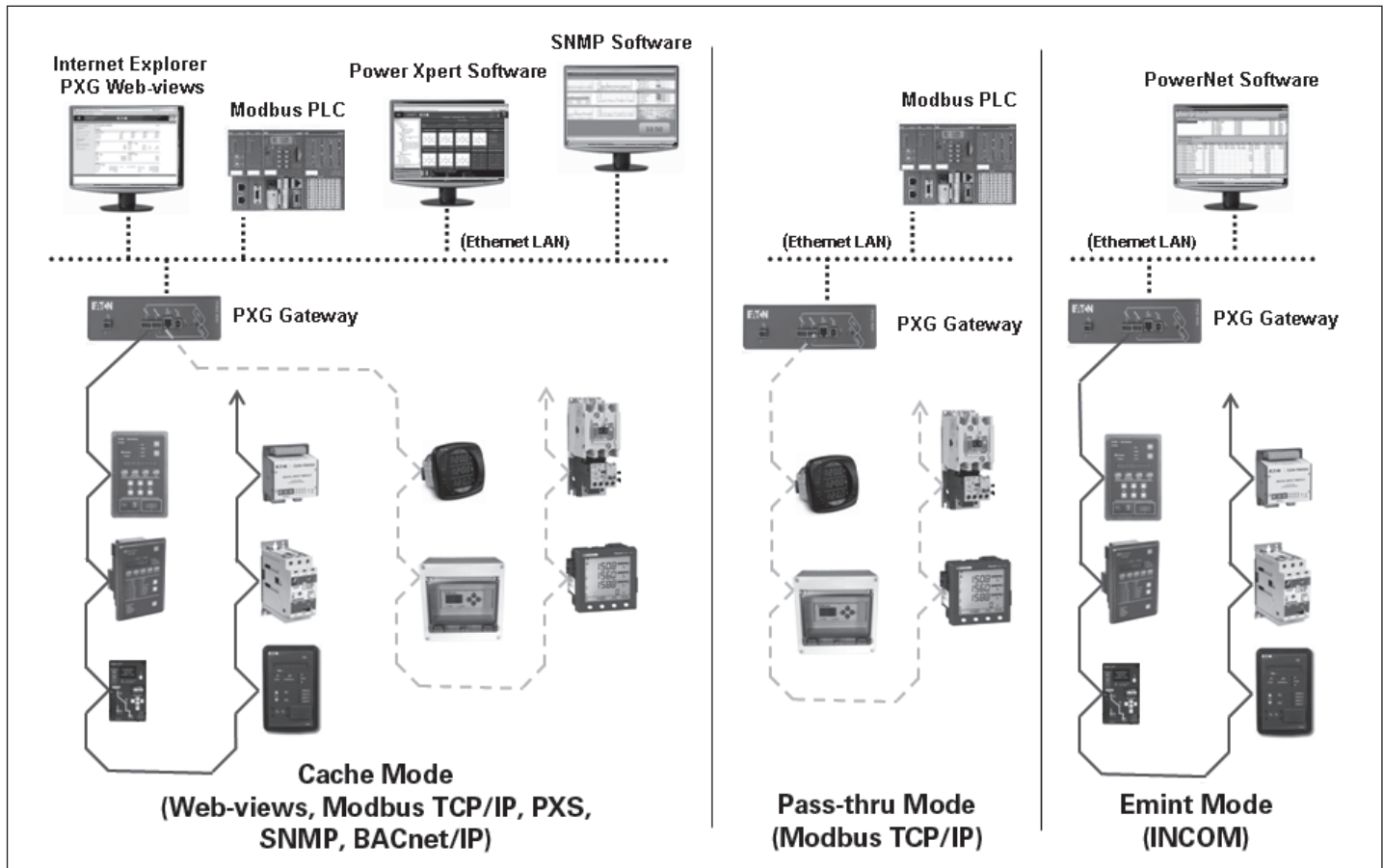
- Expansion of an existing PowerNet system with additional equipment can be easily achieved by adding a PXG400E to the system to bring the INCOM communicating devices online in INCOM pass through mode.

2. Modbus RTU to Modbus TCP Pass-Through Mode

The Modbus RTU-Modbus TCP Pass-Through Mode allows information from Modbus serial devices to pass directly through the gateway to be viewed by a (or multiple) Modbus TCP monitoring software, i.e. an existing Building Management System.

- The PXG allows users to do simple protocol translation, without any configuration in the PXG for those applications where they need Modbus TCP to bring devices into their existing system.

Figure 1. Three operational modes



The flexibility of the PXG for simple Modbus protocol translation in conjunction with other mode’s makes the PXG more than a simple Modbus protocol translator.

3. Web Browser or Cache Mode

Cache mode allows data from INCOM serial devices, Modbus serial devices and QC Port serial devices into the gateway, creating real-time viewing status through a web browser as well as logging for historical reference and trending in some models. Cached data from the serial devices can be shared with other client software similar to pass through.

- The PXG in cache mode serves as an acquisition tool and provides the ability for users to view their serial devices on the serial networks connected to the PXG through a web browser. This allows users to bring power infrastructure equipment online to monitor operation and record power and energy usage.

Secure communication

• Password Protection

Two levels of authorized access to data via the user interface

1. User level permits viewing the data only
2. Admin level permits configuration and changing settings, in addition to viewing data

• Secure Web browsing

SSL Encryption option ensures that information and passwords exchanged with the PXG’s Web server cannot be intercepted on the LAN

• Access Control/Trusted Host List

Provides an additional method of security by limiting access to the communication ports by authorized trusted hosts IP addresses

Time synchronization

The PXG supports synchronization of clocks on INCOM devices that support the set time and date command. Additionally, the PXG can be combined with a network time server for accurate time stamping via NTP.

Real-time trending and viewing

The PXG 600E allows the user to enable pre-selected parameters to be trended for each supported device. This feature is user-selectable on the device configuration page. A trend symbol is displayed next to the trended parameter on the device page. Selecting the trend symbol will generate a real-time graph via the Web UI for that parameter and can be viewed for the past 24 hours, seven days, 30 days or all past history.

Interval and event logging and analysis

The PXG 600E stores both historical data and events that can be downloaded into a comma separated value (CSV) file format. Using Excel will allow you to perform analysis to discover potential system issues or proactively performing maintenance.

Waveforms capture and downloads

The PXG 600E supports waveform acquisition for supported devices capable of generating waveforms. This feature is user-selectable on the device configuration page. The waveform files are converted and stored as a COMTRADE file format in the PXG 600E. The files can then be downloaded and viewed using a standard COMTRADE waveform viewer of your choice.

Summary of PXG 600E Features

| Features | PXG 600E |
|---|-----------------------|
| Total number of supported devices | 96 |
| Maximum number of INCOM devices supported | 64 |
| Protocols supported on downstream devices: INCOM, QCPort and Modbus RTU | Yes |
| Number of downstream communication ports | 3 |
| Number of downstream protocols supported simultaneously | 3 |
| USB port for configuration | Yes |
| Two RJ-45 Ethernet ports - 10/100 Base-T | Yes |
| Modbus TCP/IP protocol supported | Yes |
| SNMP client access v.1 and v.3 | Yes |
| BACnet/IP | Yes |
| INCOM slave action commands supported | Yes |
| INCOM date and time settings supported | Yes |
| Modbus write commands supported from modbus master | Yes |
| Device summary screen per main, bus and device | Yes |
| Device waveform access and storage – COMTrade file format | Yes |
| Set user-defined events | Yes |
| Real-time trending | Yes |
| Trend graphs displayed in Web browser | Yes |
| Data logging – csv file format, downloadable to Excel | Yes |
| Event notification via the Web interface | Yes |
| Event logs – csv file format, downloadable to Excel | Yes |
| Interval logs – csv file format, downloadable to Excel | Yes |
| Email notification on events and threshold alarms | Yes |
| Secure Ethernet communications - SSL encryption | Yes |
| Secure communication ports via access control/trusted host list | Yes |
| IPv4 & IPv6 support | Yes |
| Custom summary user view creation | No |
| Ability to create custom events | No |
| Save and restore configuration settings | Yes |
| Control commands supported | Yes (downloadable) |

The Eaton Power Xpert Gateway 600E includes:

| |
|---|
| The Power Xpert Gateway Module |
| Mounting provisions and required hardware for panel and DIN rail mounting |
| CD-ROM: contains the User Manual, Modbus Register Maps, USB Driver and other associated files |

Supported control commands

The PXG 600E supports select control commands, or writes, for INCOM and Modbus RTU devices via the Web interface. Please contact Eaton’s Technical Support for information on supporting control commands.

User-defined events

The PXG 600E supports the setting of user-defined events on an individual device basis. This feature is set via the device configuration page. An example of a user-defined event would be a Low and High limit on Phase A Current for a device. The event limit values and the event names can be chosen by the user. These event notices behave in the same manner as the Device Events described above.

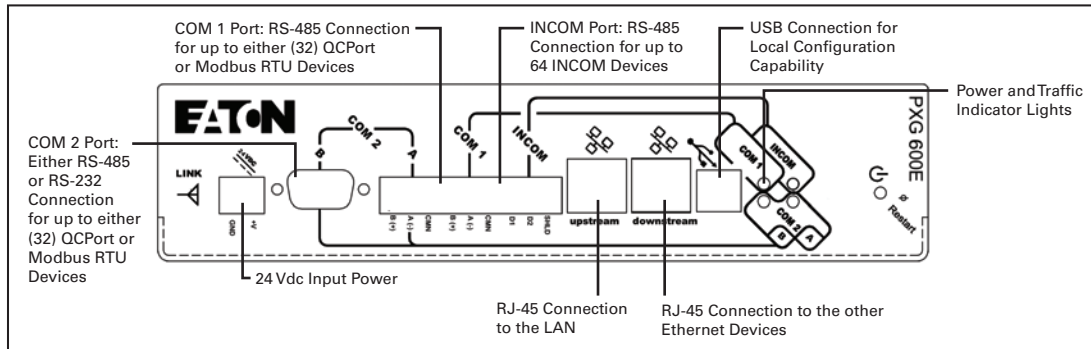
Email notification

You have the ability to customize and direct email notifications to up to 10 users in your organization. Select from event notifications, data logs, interval log, event logs and heartbeat emails. This provides yet one more way to effectively and proactively manage your power system.

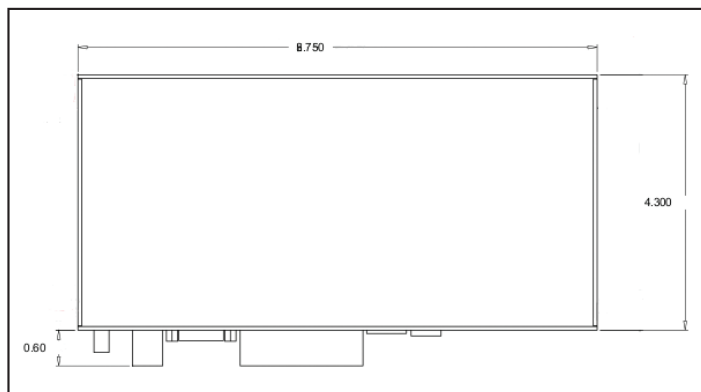
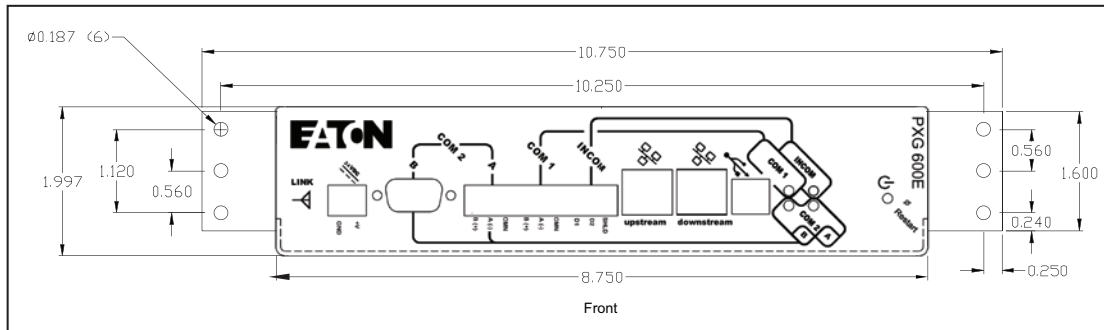
Save and restore configuration settings

The PXG provides the ability to save the PXG device and network configuration settings to an XML file format. It can be used to restore settings to that PXG or any other PXG to facilitate configuration of similar systems.

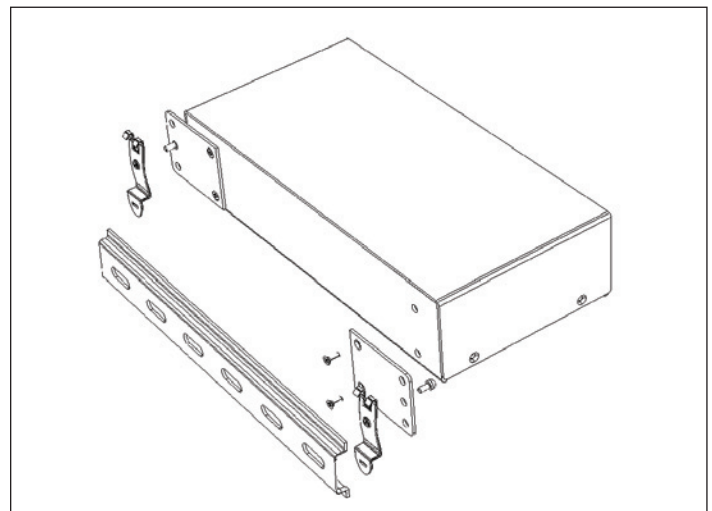
Power Xpert Gateway 600E



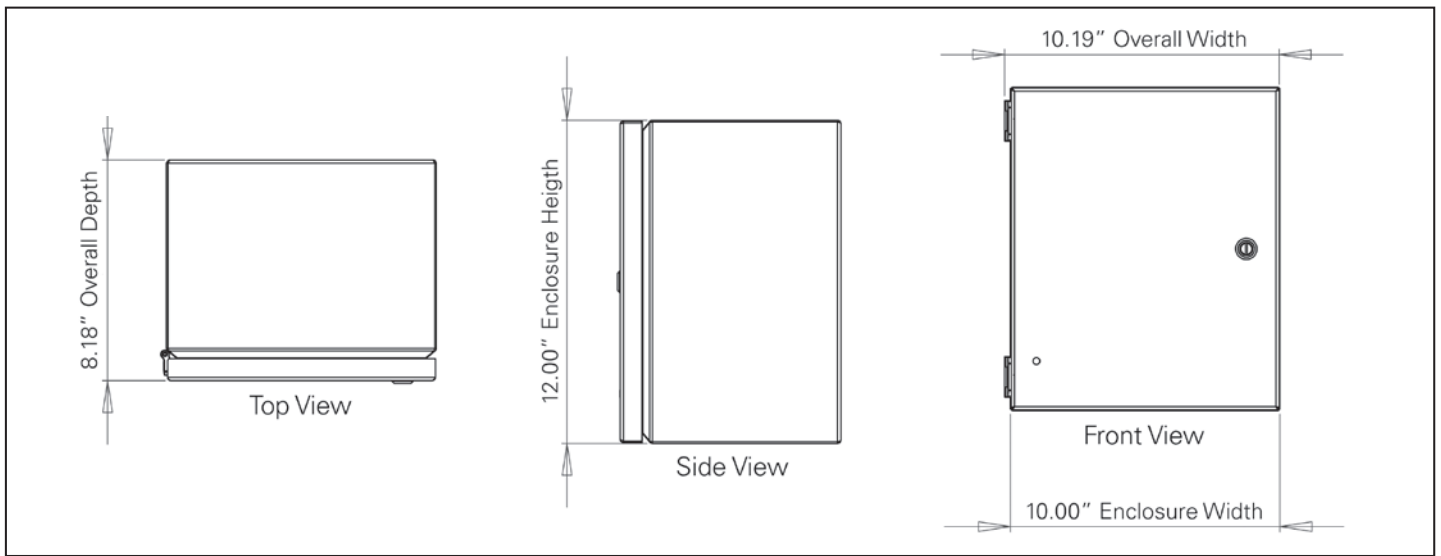
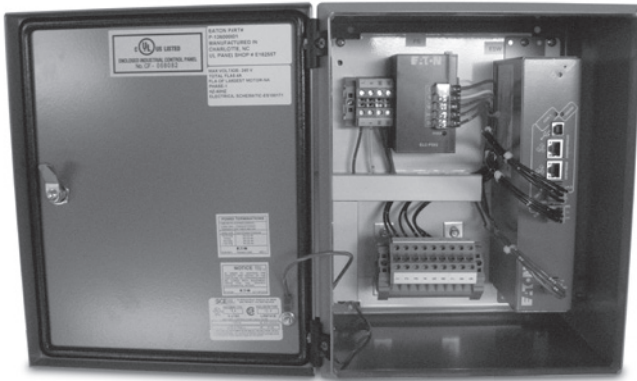
Power Xpert Gateway 600E with standard panel mounting (brackets included)



Power Xpert Gateway 600E with DIN rail mounting (brackets included)

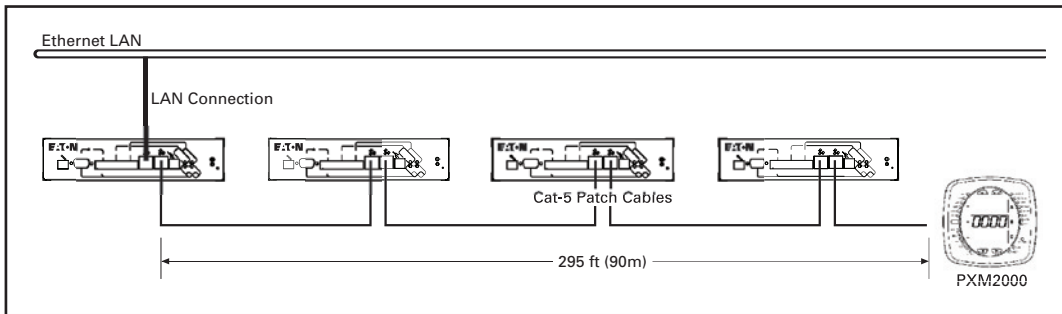


Power Xpert Gateway Enclosed Version



PXG-E Daisy Chain Application

The PXG-E allows for units to be connected together through two RJ-45 10/100 connectors on the front of the PXG-E series of products. This arrangement is a pass-through of Ethernet communications allowing a single network drop to connect up to five Ethernet communicating devices. The maximum length of a copper cable run should not exceed 295 ft (90m) total.



Note: In this configuration, if any of the PXG-E units go offline or lose power, the communication to the downstream Ethernet devices will lose connection to the LAN.

Data acquisition and integration table for supported devices

Supported Devices

| Protocol | Device Type | Device Name | HTTP (Web Browser) | Web Services (Power Xpert Software) | Modbus TCP (BMS & SCADA) | Pass-through INCOM (PowerNet) | Pass-through QCPort (CHStudio) | SNMP (NMS) | SMTP (Email Client) | File Export (CSV file format) | File Export (COMTRADE file format) | BACnet/IP | |
|-----------------|--------------------|-------------------------|--------------------|-------------------------------------|--------------------------|-------------------------------|--------------------------------|------------|---------------------|-------------------------------|------------------------------------|-----------|---|
| INCOM | Drive | Accutrol 400 | • | • | • | • | | • | • | • | | • | |
| | Drive | AF97 | • | • | • | • | | • | • | • | | • | |
| | I/O | Universal RTD | • | • | • | • | | • | • | • | | • | |
| | I/O | DIM | • | • | • | • | | • | • | • | | • | |
| | Meter | IQ DP-4000 | • | • | • | • | | • | • | • | | • | |
| | Meter | IQ Energy Sentinel | • | • | • | • | | • | • | • | | • | |
| | Meter | IQ220 / IQ320 | • | • | • | • | | • | • | • | | • | |
| | Meter | IQ230 / IQ330 | • | • | • | • | | • | • | • | | • | |
| | Meter | IQ Analyzer (6000/6200) | • | • | • | • | | • | • | • | • | | • |
| | Meter | IQ Analyzer (6400/6600) | • | • | • | • | | • | • | • | • | | • |
| | Meter | IQ Data | • | • | • | • | | • | • | • | | • | |
| | Meter | IQ Data Plus | • | • | • | • | | • | • | • | | • | |
| | Meter | IQ Data Plus II | • | • | • | • | | • | • | • | | • | |
| | Meter | Power Manager | • | • | • | • | | • | • | • | | • | |
| | Meter | IQ Power Sentinel | • | • | • | • | | • | • | • | | • | |
| | Meter | IQMESII | • | • | • | • | | • | • | • | | • | |
| | Meter | PM3 | • | • | • | • | | • | • | • | | • | |
| | Protective | DigiTrip 3000 | • | • | • | • | | • | • | • | | • | |
| | Protective | DigiTrip 3200 | • | • | • | • | | • | • | • | | • | |
| | Protective | FP-5000 | • | • | • | • | | • | • | • | • | | • |
| | Protective | FP-4000 | • | • | • | • | | • | • | • | • | | • |
| | Protective | MP-3000 | • | • | • | • | | • | • | • | | • | |
| | Protective | MP-4000 | • | • | • | • | | • | • | • | | • | |
| | Protective | DigiTrip 520MC | • | • | • | • | | • | • | • | | • | |
| | Protective | IQ 500 | • | • | • | • | | • | • | • | | • | |
| | Protective | MPCV Relay | • | • | • | • | | • | • | • | | • | |
| | Protective | DigiTrip 1150/DT1150V | • | • | • | • | | • | • | • | • | | • |
| | Protective | DigiTrip 810 | • | • | • | • | | • | • | • | | • | |
| | Protective | DigiTrip 910 | • | • | • | • | | • | • | • | | • | |
| | Protective | DigiTrip MV | • | • | • | • | | • | • | • | | • | |
| | Protective | Digitrip OPTIM 1050 | • | • | • | • | | • | • | • | • | | • |
| | Protective | Digitrip OPTIM 550 | • | • | • | • | | • | • | • | | • | |
| | Protective | Digitrip OPTIM 750 | • | • | • | • | | • | • | • | | • | |
| | Protective | FP-6000 | • | • | • | • | | • | • | • | • | | • |
| | I/O | DIM-KYZ | • | • | • | • | | • | • | • | | • | |
| | Starter | Advantage | • | • | • | • | | • | • | • | | • | |
| | Starter | Advantage ACM | • | • | • | • | | • | • | • | | • | |
| | Sub-network Master | AEM II | • | • | • | • | | • | • | • | | • | |
| | Sub-network Master | BIM II | • | • | • | • | | • | • | • | | • | |
| | Sub-network Master | CMU | • | • | • | • | | • | • | • | | • | |
| | Sub-network Master | IQ CED II | • | • | • | • | | • | • | • | | • | |
| | Transfer Switch | ATC-400 | • | • | • | • | | • | • | • | | • | |
| Transfer Switch | ATC-600 | • | • | • | • | | • | • | • | | • | | |
| Transfer Switch | ATC-800 | • | • | • | • | | • | • | • | | • | | |

Supported Devices (cont.)

| Protocol | Device Type | Device Name | HTTP (Web Browser) | Web Services (Power Xpert Software) | Modbus TCP (BMS & SCADA) | Pass-through INCOM (PowerNet) | Pass-through OCPort (CHStudio) | SNMP (NMS) | SMTP (Email Client) | File Export (CSV file format) | File Export (COMTRADE file format) | BACnet/IP |
|----------|--------------------------------|--------------------|--------------------|-------------------------------------|--------------------------|-------------------------------|--------------------------------|------------|---------------------|-------------------------------|------------------------------------|-----------|
| Modbus | Drive | MVX9000 | • | • | • | | • | • | • | | | • |
| | Drive | SVX9000 | • | • | • | | • | • | • | | | • |
| | Insulation Monitor | Insulgard | • | • | • | | • | • | • | | | • |
| | Meter | IQ230M / IQ330M | • | • | • | | • | • | • | | | • |
| | Meter | IQ250 | • | • | • | | • | • | • | | | • |
| | Meter | IQ260 | • | • | • | | • | • | • | | | • |
| | Meter | SQD CM3000 Series | • | • | • | | • | • | • | | | • |
| | Meter | SQD CM4000 Series | • | • | • | | • | • | • | | | • |
| | Meter | SQD PM710 | • | • | • | | • | • | • | | | • |
| | Meter | SQD PM850 | • | • | • | | • | • | • | | | • |
| | Meter | PML 7350 | • | • | • | | • | • | • | | | • |
| | Meter | PML 7550 | • | • | • | | • | • | • | | | • |
| | Meter | PML 7650 | • | • | • | | • | • | • | | | • |
| | Protective | GE 369 Motor Relay | • | • | • | | • | • | • | | | • |
| | Protective | GE 469 Motor Relay | • | • | • | | • | • | • | | | • |
| | Temp Monitor | Qualitrol 118 | • | • | • | | • | • | • | | | • |
| | Transformer Differential Relay | ABB TPU 2000 | • | • | • | | • | • | • | | | • |
| | Overload Relay | C441 | • | • | • | | • | • | • | | | • |
| | Protective | FP-5000 | • | • | • | | • | • | • | | | • |
| | Protective | FP-6000 | • | • | • | | • | • | • | | | • |
| | Protective | EDR-3000 | • | • | • | | • | • | • | | | • |
| | Meter | IQ130 | • | • | • | | • | • | • | | | • |
| | Meter | IQ140 | • | • | • | | • | • | • | | | • |
| Meter | IQ150 | • | • | • | | • | • | • | | | • | |
| Meter | Nexus 1262/1272 | • | • | • | | • | • | • | | | • | |
| Meter | IQ35M | • | • | • | | • | • | • | | | • | |
| OCPort | I/O | D77A-AI16 | • | • | • | | • | • | • | • | | • |
| | I/O | D77A-AI8 | • | • | • | | • | • | • | • | | • |
| | I/O | D77A-DI16 | • | • | • | | • | • | • | • | | • |
| | I/O | D77A-DI8 | • | • | • | | • | • | • | • | | • |
| | Starter | IT S811 (MV811) | • | • | • | | • | • | • | • | | • |
| | Starter | IT Starter | • | • | • | | • | • | • | • | | • |
| | Starter | IT Starter Qsnap | • | • | • | | • | • | • | • | | • |

Device parameters displayed via the PXG Web UI

The table below represents many of the parameters displayed on the Web UI page for a given device; however it is not exhaustive. For the complete list of parameters displayed, per device, refer to the Device Data Map file at www.eaton.com/pxg.

| | | IQ Meters | | | | | | | | | | | | | Circuit Breaker Trip Units | | | | | | | Protective | | | | | | | | | | | | |
|------------------------|-------|-----------------|--------------|---------|-----------------------|-----------------------|------------|------------|------------|-------------|--------|--------|-------------------|--------------------|----------------------------|--------|--------|--------|--------|-----|---------------|---------------|----------------|------------------|------------------|---------------------|--------------------|--------------------|-------------|---------------|---------------|--------|---|---|
| | Units | IO Data Plus II | IO Data Plus | IO Data | IO Analyzer 6000/6200 | IO Analyzer 6400/6600 | IO DP-4000 | IO 220/320 | IO 230/330 | IO 230/330M | IO 250 | IO 260 | IO Power Sentinel | IO Energy Sentinel | IO MESII | IO 130 | IO 140 | IO 150 | IO 35M | PM3 | Power Manager | Digitrip 1150 | Digitrip 520MC | Digitrip RMS 910 | Digitrip RMS 810 | Digitrip OPTIM 1050 | Digitrip OPTIM 550 | Digitrip OPTIM 750 | Digitrip MV | Digitrip 3000 | Digitrip 3200 | IO 500 | | |
| Voltage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average | V | - | - | - | X | X | - | - | - | - | - | - | - | - | - | - | - | - | X | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Voltage (Line-Line) | V | X | X | X | X | X | X | X | X | X | X | X | X | - | - | X | X | X | X | X | X | - | X | - | X | - | - | - | - | - | - | - | - | - |
| Voltage (Line-Neutral) | V | X | X | X | X | X | X | X | X | X | X | X | X | - | X | X | X | X | X | X | X | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Current | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average | A | - | - | - | X | X | - | - | - | - | - | - | - | - | - | - | - | - | X | X | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Phase | A | X | X | X | X | X | X | X | X | X | X | X | X | - | - | X | X | X | X | X | X | - | X | X | X | X | X | X | X | X | X | X | X | X |
| Ground | A | - | - | - | X | X | - | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | X | X | X | X | X | X | X | X | X | X | X | X |
| Neutral | A | - | - | - | X | X | X | X | X | X | X | X | - | - | - | - | - | - | - | - | - | - | X | X | X | X | X | X | X | X | X | X | X | X |
| Peak | A | - | - | - | X | X | X | X | X | X | X | X | - | - | - | X | X | X | - | - | - | - | X | - | - | - | X | X | X | X | X | X | X | - |
| Demand | A | - | - | - | X | X | X | X | X | X | X | X | - | - | - | X | X | X | - | - | - | - | X | - | - | - | X | X | X | X | X | X | X | - |
| Power | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apparent | VA | - | - | - | X | X | X | X | X | X | X | X | - | - | - | X | X | X | X | X | - | X | - | - | - | - | - | - | - | - | - | - | - | - |
| Reactive | VAR | X | X | - | X | X | X | X | X | X | X | X | - | - | - | X | X | X | X | X | - | X | - | - | - | - | - | - | - | - | - | - | - | - |
| Real | W | X | X | - | X | X | X | X | X | X | X | X | X | X | - | X | X | X | X | X | X | - | X | - | X | X | X | X | X | X | X | X | X | X |
| Power factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Apparent | PF | X | X | - | X | X | X | X | X | X | X | X | - | - | - | X | X | X | X | X | - | X | - | - | - | X | - | - | - | - | - | - | - | |
| Displacement | PF | - | - | - | X | X | X | X | X | X | X | X | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | |
| Energy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Real | Wh | X | X | - | X | X | X | X | X | X | X | X | X | X | - | X | X | X | X | X | X | - | X | - | X | X | X | X | X | X | X | X | X | |
| Forward | Wh | - | - | - | X | X | X | X | X | X | X | X | - | - | X | - | X | X | - | X | - | X | - | X | X | X | X | X | X | X | X | X | X | |
| Reverse | Wh | - | - | - | X | X | X | X | X | X | X | X | - | - | - | - | X | X | - | X | - | X | - | X | X | X | X | X | X | X | X | X | X | |
| Apparent | Vah | - | - | - | X | X | X | X | X | X | X | X | - | - | - | - | X | X | X | - | X | - | - | - | - | - | - | - | - | - | - | - | - | |
| Reactive | VARh | - | - | - | X | X | X | X | X | X | X | X | - | - | - | - | X | X | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Leading | VARh | - | - | - | X | X | X | X | X | X | X | X | - | - | - | - | X | X | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Lagging | VARh | - | - | - | X | X | X | X | X | X | X | X | - | - | - | - | X | X | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Power quality | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THD | % | - | - | - | X | X | X | - | - | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | | |
| Current THD | % | - | - | - | X | X | X | - | - | - | - | X | - | - | - | - | - | - | - | - | - | - | X | - | - | - | X | - | - | - | - | - | - | |
| Voltage THD | % | - | - | - | X | X | X | - | - | - | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | - | - | - | - | |
| Frequency | Hz | X | X | X | X | X | X | X | X | X | X | X | - | - | - | X | X | - | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Waveform capture | n/a | - | - | - | X | X | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | - | - | - | X | - | - | - | - | - | - | |
| Temperature | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ambient | C | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Auxillary | C | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Load bearing | C | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Motor bearing | C | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Winding | C | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Phase (L, C, R) | C | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Terminal block | C | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Input status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Count | | - | - | - | X | X | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Status/cause of trip | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | X | X | X | X | X | X | X | X | X | X | X | |
| Thermal memory | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Pole temp | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Winding temp | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Fan status | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Alarm/trip relay | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

Technical specifications

PXG part numbers

| Eaton catalog number | Eaton style number | Description |
|----------------------|--------------------|--------------------------|
| PXG600E | 103008422-5591 | Power Xpert Gateway 600E |
| ELC-PS02 | ELC-PS02 | Power Supply - 24 VDC |
| PXGACC01 | 66B2146G01 | Mounting Bracket Kit |
| PXG600E-2A | P-136000003 | Enclosed Model |

Memory

Flash: 1 GB

RAM: 128 MB

Communication ports

| | |
|--------------------|---|
| Network port | Two 10/100 Base T RJ-45 connector |
| Serial ports | One RS-485 port for connection to either QCPort or Modbus RTU devices one dedicated RS-485 port for INCOM devices one RS-485 or RS-232 port for connection to either QCPort or Modbus RTU devices |
| Configuration port | One USB port |

Network protocols supported

| | |
|---------------|---|
| Modbus TCP/IP | Supports data access from Modbus TCP clients |
| Web server | Supports data access from Web browsers (HTTP and HTTPS) |
| DHCP | Supports automatic IP address assignments, if enabled |
| SNMP | Supports common network management tools |
| NTP | Supports time synchronization via a network time server for PXG synchronization |
| SMTP | Supports mail server for email notification |
| BACnet/IP | Supports data from BACnet clients |

Serial protocols supported

| |
|------------|
| INCOM |
| QCPort |
| Modbus RTU |

Web browsers recommended

IE 6.0 and higher

Mozilla Firefox 2.0 and higher

Number of devices supported

96 total with INCOM Port + COM 1 Port + COM 2 PORT not to exceed 96 devices

Port limitations are as follows:

- INCOM Port: Up to 64 INCOM devices
- COM 1 Port: Up to 32 QCPort or Modbus RTU devices
- COM 2 Port: Up to 32 QCPort or Modbus RTU devices

Power input

Input voltage, nominal: 24 VDC; 0.8A

Input voltage range: +/- 20% Nominal

Power consumption

8 watts maximum

Operating temperature

32 to 140° F (0 to 60° C)

Ambient storage temperature

-40 to 185° F (-40 to 85° C)

Relative humidity

5 to 95% non-condensing at 122° F (50° C)

Size (H x D x L)

2.1" x 4.5" x 8.9"

Weight

1.5 pounds

Regulatory and standards compliance

UL 508, Standard for Programmable Controller Equipment

FCC, Class A, Part 15, Subpart B, Sections 15.107b & 15.109b

EN55022: 1994 Class A, Information Technology Equipment

EN 61000-6-2:2001 Electromagnetic Compatibility (EMC) Part 6-2: Immunity for Industrial Environments

Enclosed Version

| | |
|---------------------------------------|--|
| Enclosure Rating | NEMA 12 |
| ELC-PS02 Power Supply | Power Input: 100-240VAC 50/60Hz Output Power: 24VDC (+/-3%) Output Current: 2A max. Environmental: Operating Temp. Range: 0-55° C Storage Temp. Range: -25-70° C Relative Humidity: 50-95% For additional information on the ELC-PS02 refer to IL05003007E. |
| Size (dimensions) HxDxW | 12"x8.18"x10.19" |
| Weight | 16 lbs. |
| Regulatory and Standard Compliance | UL Panel Shop #: E182557 cULus listed |

Note: Features and specifications listed in this document are subject to change without notice and represent the maximum capabilities of the product with all options installed. Although every attempt has been made to ensure the accuracy of information contained within, Eaton makes no representation about the completeness, correctness or accuracy and assumes no responsibility for any errors or omissions. Features and functionality may vary depending on selected options.

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