

# Compact power and energy metering solution



Featuring Pow-R-Line Xpert PXM350 panelboard

## An ideal solution for monitoring and metering applications

### Overview

Eaton's Pow-R-Line Xpert™ PXM350 includes a compact, affordable energy meter that combines exceptional performance and easy installation to deliver a cost-effective solution for energy and power monitoring applications, as well as submetering applications.

Because of its compact size, the Pow-R-Line Xpert PXM350 is an ideal solution for panelboard applications to monitor the main power coming into the panelboard. Use the Pow-R-Line Xpert PXM350 for applications in lighting appliance and small power distribution panelboards up to 400 amperes.

With the rapidly changing emphasis on LEED® designs, the Pow-R-Line Xpert PXM350 helps you to meet the Measurement and Verification points required by LEED and the U.S. Green Building Council.

All models include pulse output, time of use, event logging and an alarm relay output for maximum versatility. Modbus® and BACnet communications offer added flexibility for configuration, communication and data analysis.

### The Pow-R-Line Xpert PXM350 allows you to:

- Verify energy bills
- Make informed load shifting and shedding decisions
- Fairly and accurately allocate energy costs to users
- Identify wasteful practices
- Decrease unnecessary usage
- Produce an energy profile
- Secure the optimum utility rate structure

### Key features

- Economical and compact watt-hour meter with demand
- Backlit LCD display for local reading
- Compatible with the Power Xpert® Gateway for remote monitoring
- Monitors:
  - Voltage, current, power factor, frequency
  - Power: real, reactive and apparent
  - Energy: real, reactive and apparent
- Demand measurement of current, real power, reactive power and apparent power
- Peak demand
- Demand forecasting
- Serial communications (Modbus RTU and BACnet MSTP)
- Revenue grade, ANSI C12.20 0.5% accuracy, IEC 62053-22 Class 0.5S
- User-enabled password protection
- On-board diagnostics

### Typical applications

- Commercial submetering
- Energy management
- Industrial monitoring
- Cost allocation
- Data center
- Light commercial
- Industrial
- Institutions



Powering Business Worldwide



Featuring Power Xpert PXM350 meter

Technical specifications	Description
Voltage input	90 V to 690 V
Current input	Scaling: 10 mA to 500,000 A Input range: 0 to 0.333 V
Control power	100–415 Vac, 50/60 Hz, 100–300 Vdc
<b>Accuracy</b>	
Real power and energy	0.5% (ANSI C12.20)
<b>Outputs</b>	
	Real energy pulse, alarm contact
	Reactive energy pulse
	RS-485 two-wire Modbus RTU and BACnet MSTP (user selectable)
<b>Mechanical</b>	
Mounting	DIN rail or three-point screw mount
<b>Environmental</b>	
Operating temperature range	Meter: –25 to 75 °C (–13 to 167 °F)
Storage temperature range	Meter: –40 to 85 °C (–40 to 185 °F)
Humidity range	<95% RH noncondensing
<b>Data outputs</b>	
kW, kWh	Total
Current	Three-phase average, per phase
Voltage	Three-phase average, per phase line-line and line-neutral
Power	Real, reactive and apparent; three-phase total and per phase
Power factor	Three-phase average and per phase
<b>Frequency</b>	
Power demand	Most recent and peak
Demand configuration	Fixed, rolling block and external sync

### Panelboard ratings and features

- Panelboard: UL 67 Listed
- Enclosures: UL 50 Listed
- 208/120 Vac, 240 Vac, 480Y/277 Vac, 480 Vac and 125 Vdc
- Main lugs or main breaker
- Top or bottom feed
- Up to 200 kAIC symmetrical short-circuit current rating
- 100 A, 225 A and 600 A bussing
- 18 to 84 branch circuit configurations
- Single-pole, two-pole and three-pole branch devices, 15 to 125 A

### NEMA enclosure options

A variety of NEMA enclosures are available as options: NEMA Type 1, 2, 3R, 4, 4X and 12.

### Dimensions in inches (mm)

#### Heights

- 36.00 (914.4)
- 42.00 (1066.8)
- 48.00 (1219.2)
- 60.00 (1524.0)
- 72.00 (1828.8)
- 90.00 (2286.0)

#### Widths ❶

- 20.00 (508.0)
- 28.00 (711.2)

#### Depth ❶

- 5.75 (146.1)

❶ Dimensions for NEMA Type 1 enclosure. For dimensions of optional NEMA enclosure, contact your Eaton distributor or sales engineer.

### PXM350 options

Because each Pow-R-Line Xpert PXM350 panelboard is assembled by an experienced technician, we can easily and efficiently incorporate any combination of modifications and accessories, including:

- Breaker lock-off devices
- Compression type lugs (main lugs only)
- Ground fault breakers
- Arc fault breakers
- Increased dimensions
- Trim to fix existing boxes
- Main breakers with solid-state trip units
- Permanent circuit numbering
- Service entrance
- Special doors and locks
- Surge protection devices
- Pow-R-Command™ lighting control
- Isolated ground bus
- Through-feed lugs
- Sub-feed lugs

**Note:** Contact your local Eaton distributor or sales engineer for additional information on these and other modifications and accessories.

### Customer orders and shipping

Each Pow-R-Line Xpert PXM350 panelboard is assembled to the customer's specifications.

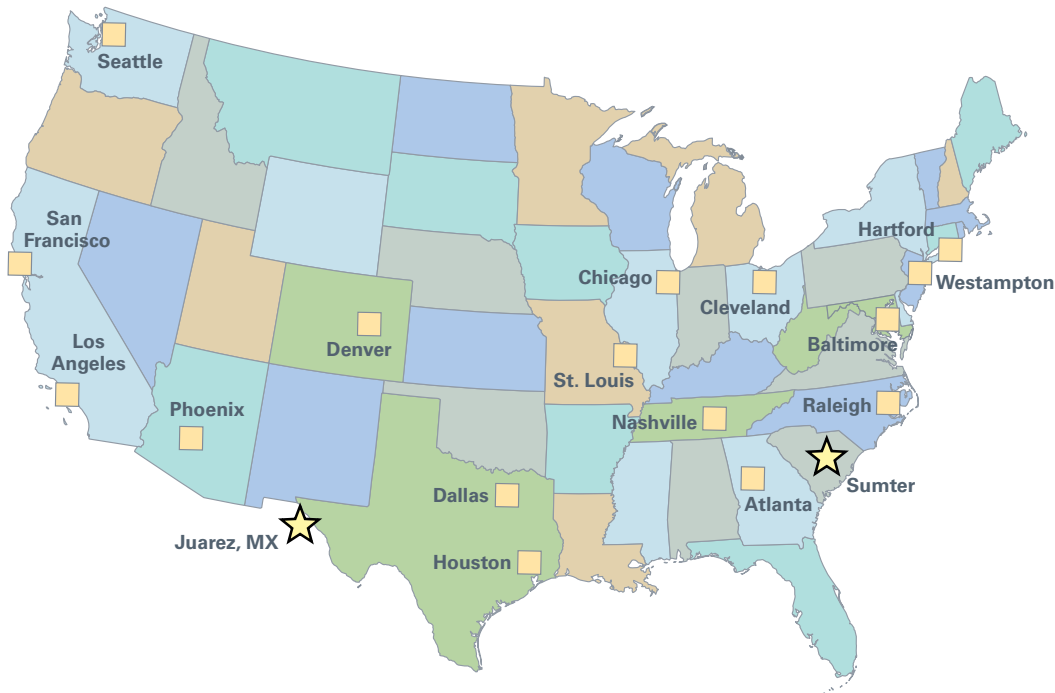
For more information on the PXM350 meter, please refer to Technical Data TD150024EN, contact your nearest Eaton sales office or go to [Eaton.com/electrical](http://Eaton.com/electrical).



## Pow-R-Line 1X, 2X and 3e specifications

Description	Rating
<b>Pow-R-Line 1X ratings</b>	
Voltage	240 Vac maximum
Main breaker	100–400 A ①
Main lug	100–400 A ①
Maximum kAIC	10–22 kA fully rated 22–200 kA series rated
Branch circuit breaker	15–100 A
Branch breaker connector	140 A
Branch circuit breaker types	BA (BAB, BAB-H), QBH (QBHW, QBHW-H), QBGFT, QBGFEP, QBHGFT, QBHGFEF, HQP, QPHW, QHPX, QPGF, QPHGF, QPGEP, QPHGFEF, BABR, QBAF, QBAG, QBHAF, QBCAF and QBHCAF
<b>Pow-R-Line 2X ratings</b>	
Voltage	240 Vac, 480Y/277 Vac and 125/250 Vdc maximum
Main breaker	100–400 A ①
Main lug	100–400 A ①
Maximum kAIC	240 Vac: 65 kA fully rated 65–200 kA series rated 480Y/277 Vac: 14 kA fully rated 22–150 kA series rated 125/250 Vdc: 10–14 kA fully rated
Branch circuit breaker	15–100 A
Branch breaker connector	140 A
Branch circuit breaker types	GB, GHB, GHBGFEF, GHBS, HGHB, GQ, GHQ, GHQRS and GHQRS
<b>Pow-R-Line 3e ratings</b>	
Voltage	240 Vac, 480Y/277 Vac or 480 Vac and 250 Vdc maximum
Main breaker	125–400 A ①
Main lug	100–400 A ①
Maximum kAIC	240 Vac: 20–100 kA fully rated 100–200 kA series rated 480Y/277 Vac or 480 Vac: 18–65 kA fully rated 65–100 kA series rated 250 Vdc: 10–42 kA fully rated
Branch circuit breaker	15–125 A
Branch breaker connector	140 A
Branch circuit breaker types	EGB, EGS, and EGH

① 600 A is available without main metering.



Eaton Pow-R-Line Xpert panelboards and switchboards are built to your requirements at our world-class manufacturing plants in Sumter, SC and Juarez, MX. In addition, Eaton has 16 regional Satellite facilities located across the country to meet your panelboard and switchboard service needs.

For an unparalleled commitment to your specific needs, please visit your local Satellite facility.

**Atlanta**

7000 Highlands Parkway SE  
Suite 102  
Smryna, GA 30082  
678.309.4260

**Baltimore**

7451 Coca Cola Drive  
Suite C  
Hanover, MD 21076  
410.796.7777

**Chicago**

230 Windy Point Drive  
Glendale Heights, IL 60139  
630.260.6303

**Cleveland**

12875 Corporate Drive  
Unit E  
Parma, OH 44130  
216.265.3284

**Dallas**

631 Westport Parkway  
Suite 100  
Grapevine, TX 76051  
817.251.6733

**Denver**

2450 Airport Road  
Suite C  
Aurora, CO 80011  
303.366.2080

**Hartford**

40A International Drive  
Windsor, CT 06095  
860.298.1305

**Houston**

14825 Northwest Freeway  
Suite 100  
Houston, TX 77040  
713.744.7530

**Juarez**

Prolongacion Hermanos Escobar  
#7014, Parque Industrial Omega  
Adicion Oriental Cd.  
Juarez, Chichauha Mexico 32648

**Los Angeles**

13201 Dahlia Street  
Suite 300  
Fontana, CA 92337  
919.428.8903

**Nashville**

1421 Gould Boulevard  
Suite C  
La Vergne, TN 37086  
615.287.3200

**Phoenix**

560 N 54th Street  
Suite 1  
Chandler, AZ 85226  
480.449.4222

**Raleigh**

9400 Globe Center Drive  
Suite 121  
Morrisville, NC 27560  
919.544.7074

**St. Louis**

56 Soccer Park Road  
Fenton, MO 63026  
636.717.3500

**Sumter**

*Main Manufacturing Plant*  
845 Corporate Circle  
Sumter, SC 29154  
803.481.3131

**San Francisco**

20923 Cabot Boulevard  
Hayward, CA 94545  
510.784.8981

**Seattle**

1604 15th Street SW  
Suite 114  
Auburn, WA 98001  
253.833.5021

**Westampton**

96 Stemmers Lane  
Westampton, NJ 08060  
609.835.4230

For more information, visit  
[Eaton.com/panelboards](http://Eaton.com/panelboards)



**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

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