

Pow-R-Line Multipoint Metering Panelboards and switchboards



Complete modular solution for distributing and monitoring energy usage



A winner in multi-tenant new construction—Eaton's new Pow-R-Line™ Multipoint Meter (MPM) is the next generation of metering in the multi-tenant market, giving users the ability to monitor energy usage and create customer billing applications.

The Pow-R-Line MPM combines Eaton's Power Xpert™ Multi-Point Meter with innovative distribution equipment including Integrated Facility Systems™ (IFS™), switchboards and Pow-R-Line 4 panelboards to provide a space-saving, cost-effective energy tabulation system for residential or commercial metering installations, including:

- High-rise buildings
- Universities and campuses
- Office buildings
- Apartment and condominium complexes
- Shopping malls
- Airports

All of these markets can easily benchmark energy usage throughout their entire structures, apply billing accordingly, and conserve and save energy by proactively monitoring it. Building owners and facility managers can monitor where energy usage is taking place and bill accordingly, or locate opportunities to save money. Using tenant billing for utility allocation maximizes revenue by effectively measuring, allocating and recovering utility expenditures.

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The Pow-R-Line MPM offers the property owner or management the ability to:

- Purchase energy at a bulk rate while charging designed utility rates to tenants
- Capitalize on naturally variable tenant loads by purchasing energy at a lower coincident load
- Capture and allocate common area maintenance costs
- Promote tenant retention with accurate billing
- Eliminate subsidization of other tenants

Benefits

- Factory-wired system
- Saves floor space
- Lower installed cost
- Network compatible
- Tenant sub-billing
- UL® Listed

Several options for collecting and distributing tenant data

The owner or the property manager can view data via a webpage straight from a standard Web browser with the optional energy portal module. This also offers a convenient E-allocation portal that allows the owner to assign energy charges to various departments within the building.

For billing applications, Eaton has partnered with several software providers to bring a comprehensive tenant billing service either hosted on the owner's local computer or hosted by the billing service.

Application design

The Pow-R-Line MPM space-saving design reduces the need for multi-metering equipment for each tenant. Additionally, it can monitor loads up to 5000A for energy billing or cost allocation. The meter is rated per ANSI C12.20 for revenue metering grade accuracy. With built-in communications capabilities, the Pow-R-Line MPM can connect to a local PC or network. The Pow-R-Line MPM can connect to a third-party billing service

to provide monthly energy consumption charges used by tenants. Additionally, unit status and communication activity are provided by a display on the metering compartment front panel.

The Pow-R-Line MPM device can measure up to 60 total poles in any combination of single-, two- or three-pole breakers. The meters and current sensors are factory-mounted, with the current sensors factory-wired to the meter inside the PRLC or IFS structure.

The meter monitors full power and energy values for each load. The main device is also available to be monitored in most applications.

A number of factory-installed options are available including:

- Energy portal modules (Web-enabled plus Modbus® TCP/IP and BACnet/IP)
- Pulse input modules for WAGES applications
- Digital output modules for outputs to an energy management or building automation system
- Third-party software options for billing applications



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