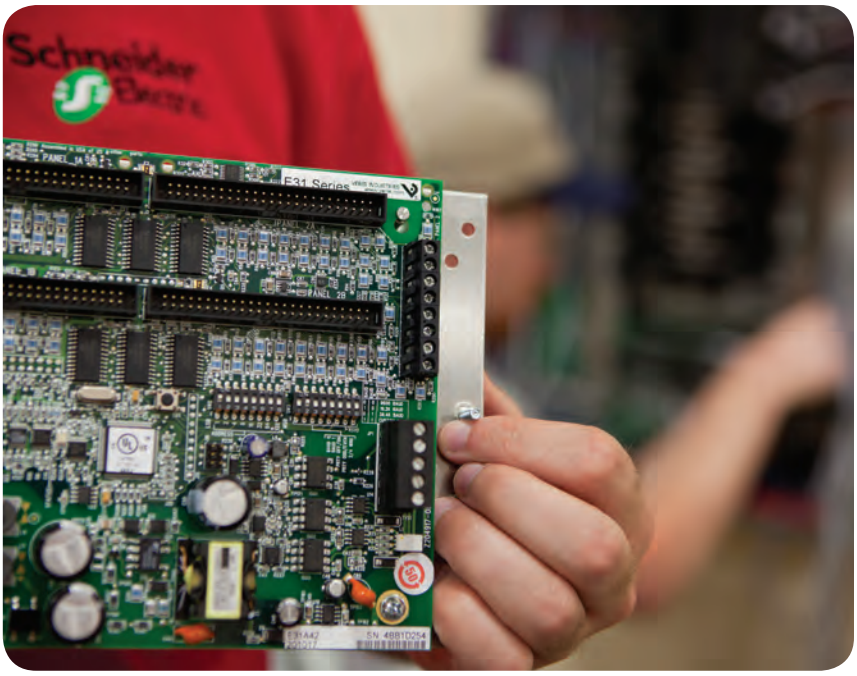
PowerLogic™ Branch Circuit Power Meter (BCPM)

Harness industry-leading monitoring capabilities for maximum power reliability

Data centers and Networks

SQUARE D™

by Schneider Electric



Up to 20% energy savings with minimal or no capital cost.[1] A critical component of an energy information system, the PowerLogic BCPM provides information that is key to successful energy savings initiatives.

Maximum uptime, accurate energy usage, and optimized rack loading at your fingertips

Data centers face mounting pressure today to make wise use of their energy dollars while still maintaining 100 percent uptime. Data center customers increasingly demand to be billed only for the energy they use. Corporate data centers must allocate costs to specific departments based on their energy use. In an environment where one hour of downtime can cost several million dollars, you cannot afford to sacrifice power availability. The PowerLogic™ BCPM can help you manage these demands and increase your bottom line.

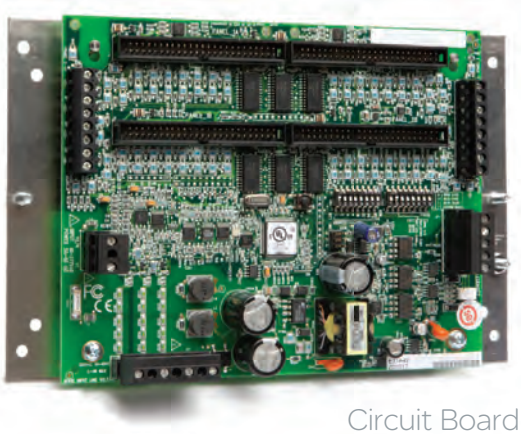
The PowerLogic BCPM provides power and energy data on branch circuits and mains in a power distribution unit or remote power panel, giving you an accurate vision of your capacity, energy use, and reliability.

The PowerLogic BCPM offers three outstanding features, giving you a clear business advantage:

- Fits most major manufacturers' power distribution unit or remote power panel design – simplifies installation while lowering your total costs
- Offers the widest dynamic monitoring range within its class – helps you identify unused or overextended capacity
- Best-in-class low current monitoring – allows you to differentiate small loads from potential circuit breaker trips

Operations & Maintenance Best Practices: A Guide to Achieving Operational Efficiency by Pacific Northwest National Laboratory for the Federal Energy Management Program (FEMP), Department of Energy (DOE).

Get the most from your infrastructure and your energy dollar with best-in-class low-current monitoring



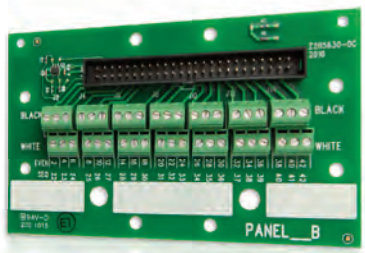
Circuit Board

Available in both BCPM Solid Core and Split Core

Two models:

BCPM Solid Core for new installations

BCPM Split Core for retrofit installations



Adapter Board

Available in the BCPM Split Core

1/3 Volt Current Transformers (CT)

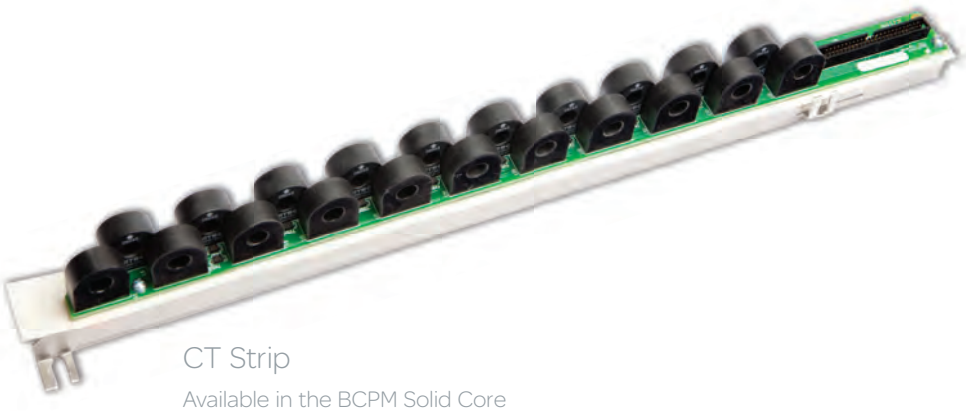
Available for both the BCPM Solid Core and Split Core

100 Amp Current Sensor

Available in the BCPM Split Core

50 Amp Current Sensor

Available in the BCPM Split Core



CT Strip

Available in the BCPM Solid Core

Three BCPM base options

> **Advanced:** power and energy per circuit and mains

> **Intermediate:** current per circuit; power and energy per mains

> **Basic:** current only per circuit and mains

For mains monitoring, the PowerLogic BCPM requires 1/3 V CTs (sold separately).

Accurate

The PowerLogic BCPM gives your system the right information at the right time. Any time a circuit's current approaches a breaker's limit, the BCPM sends an alarm, helping you to prevent potential issues.

Warning before a problem occurs

Customizable alarms allow the operator to easily set the sensitivity parameters triggering an alarm when the load on any breaker approaches its limit. The alarms also distinguish between past events and alarm states that are still occurring. Analyzes the alarm history to determine areas that may need additional capacity to prevent future issues.

Best-in-class, low-current monitoring

Nothing outperforms the PowerLogic BCPM: Its best-in-class, low-current monitoring helps you distinguish between extremely low levels of current flowing and a possible breaker trip.

Widest dynamic monitoring range

The PowerLogic BCPM performs accurate current monitoring from ¼ amp to 100 amps* — the widest dynamic monitoring range available within its class. Such a large monitoring range gives you a more accurate view of your system and less chance of downtime or false alarms.

**Accuracy range with split core CTs is from 1 A to 100 A.*

Increased availability

Adding data center capacity is very costly and time consuming. The PowerLogic BCPM helps you use existing capacity efficiently while maintaining uptime by providing power and energy usage information down to the circuit level.

- Alarms on amperage conditions for individual panel breakers so you stay within mandated regulations
- Monitors breakers so not to exceed 40 percent capacity limit in dual-corded server racks
- Detects a potential breaker trip condition with low current alarm setpoints

Cost efficient

Accurate cost allocation

Increase your billing accuracy and properly charge customers for their true energy costs instead of a general energy charge per section of assigned space. Data from the PowerLogic BCPM enables you to bill your customers based on per rack energy consumption, so customers that use more power and require more infrastructure are charged accordingly.

Flexible, non-vendor specific configuration

Install the PowerLogic BCPM where space allows. Unlike many competing products, the BCPM will fit most power distribution units or remote power panel designs by major manufacturers.

Low total cost per installation

Monitor up to 92 circuits with a single PowerLogic BCPM! Its large monitoring capability gives you a complete picture of your power distribution unit for less money.

End-to-end energy intelligence

PowerLogic software

Turn the large amount of data collected by your PowerLogic BCPM into useful, decision-making information to obtain a complete picture of your electrical distribution system. The BCPM is compatible with PowerLogic ION Enterprise, PowerLogic System Manager, and PowerLogic SCADA software, giving you reliable, end-to-end power monitoring and control.

Optimized infrastructure

Adding data center capacity is very costly and time consuming. The PowerLogic BCPM helps you use existing capacity efficiently to achieve maximum uptime by providing power and energy usage information down to the circuit level. This level of granularity helps you determine areas that are overused or underused.

- Analyze actual usage per rack against your rack kW budget to determine if it can support additional equipment
- Attain a granular vision of power and energy use to pinpoint areas for optimization or areas in need of additional capacity

The advantage of PowerLogic technology

The PowerLogic range contains the world's largest and most advanced software and metering products for managing energy, giving energy suppliers and energy consumers a unique level of insight into every energy-related cost, risk, and opportunity.

A PowerLogic solution is your key to unequalled energy intelligence – empowering stakeholders with the timely, targeted knowledge needed to make smart energy decisions.

Dependability

You can depend on the PowerLogic range for all your metering and monitoring needs from the most basic measurements to the most advanced energy management systems. Quality, reliability, and flexibility – all from a name you can trust.

Utilities use PowerLogic technology to:

> Meter key interchange points with the highest accuracy

> Improve the quality of power delivered to customers

> Assure reliability and efficiency of the network and equipment

Consumers use PowerLogic technology to:

> Achieve energy-related savings through improved efficiency, lower emissions, reduced energy costs, and maximized use of infrastructure

> Improve the overall quality of power and reliability of equipment and processes

Schneider Electric™ a global leader in energy management, offers proven, integrated solutions to provide:

> Safer, more reliable energy

> Improved efficiency and productivity

> Reduced power quality issues

> Optimized energy infrastructures

Please contact your local sales representative for ordering information.
Visit www.powerlogic.com for more information on PowerLogic products, applications, and system solutions.

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