



BRANCH CIRCUIT MONITORING SYSTEM

MODULAR AND INTELLIGENT PANELBOARD AND BUSWAY POWER MONITORING

The modular and intelligent Raritan® Branch Circuit Monitoring System (BCM) meters, trends, and reports on electrical capacity and power usage upstream from IT equipment racks. You can easily retrofit the Raritan BCM's components into any data center or critical facility's commercial-grade power infrastructure to gain accurate insight into capacity, energy use, and power reliability, ultimately reducing energy costs.

METER IN NEW PLACES AND SPACES

The Raritan BCM's modular design leverages trusted power, metering, and controller technology from the Raritan Rack PDU. It can send alerts when power or environmental conditions reach critical thresholds, helping to prevent failures. The BCM collects real-time and historical data, supporting energy efficiency, sustainability, and customer chargeback initiatives. Its built-in Xerus™ Technology Platform and compatibility with DCIM monitoring and BMS software provide essential data to ensure uptime and productivity for critical facilities.

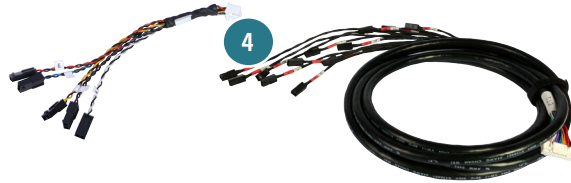
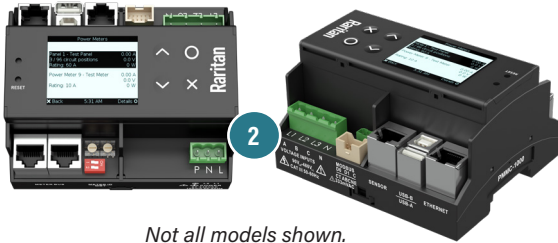
UNIQUE MODULAR DESIGN: SCALE AS NEEDED

The Raritan BCM is a modular system designed to leverage a facility's existing power infrastructure, allowing you to manage electrical capacity through more intelligent resource allocation, gaining actionable data and insights.

Benefits

- Integrate intelligent power metering into any branch circuit or main floor PDU, remote power panel (RPP), panelboard, or IT busway without interrupting power.
- Improve energy efficiency by monitoring power consumption, including A, V, kW, kVA, power factor, and kWh metrics.
- Track energy consumption and power utilization data to pinpoint unused or overextended capacity and reduce stranded capacity.
- Support sustainability and customer chargeback reporting initiatives by leveraging real-time and historical power usage data.

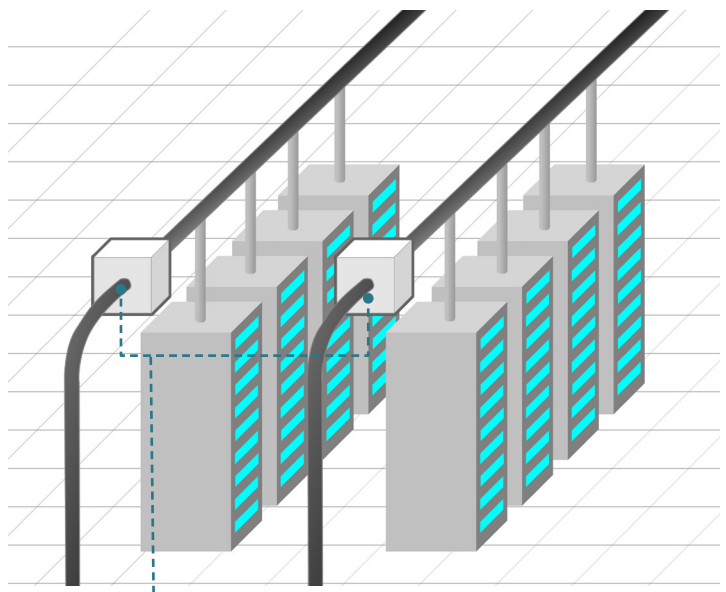
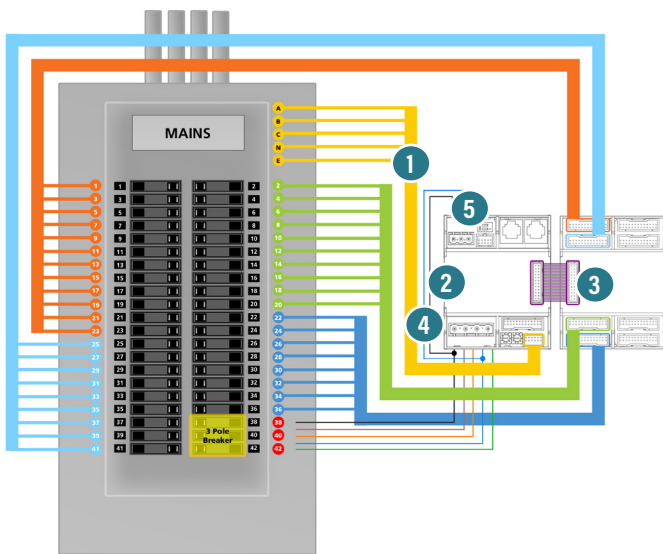
SYSTEM COMPONENTS



Not all models shown.

1. Intelligent branch circuit meters (BCMs) for enclosure mounts
2. Intelligent power meter controllers (PMCs), power meter mains (PMMs), power meter main controllers (PMMC), and power meter branch (PMB) modules for DIN rail mounts
3. Auto-correcting split core mains/branch current transformers (CTs) with click connectors to measure mains and branches
4. Pre-labeled cabling with keyed locking connectors
5. Mounting kits (not shown above)

REFERENCE DEPLOYMENTS



Install a busway metering module at the busway main's junction box to monitor power going to racks.

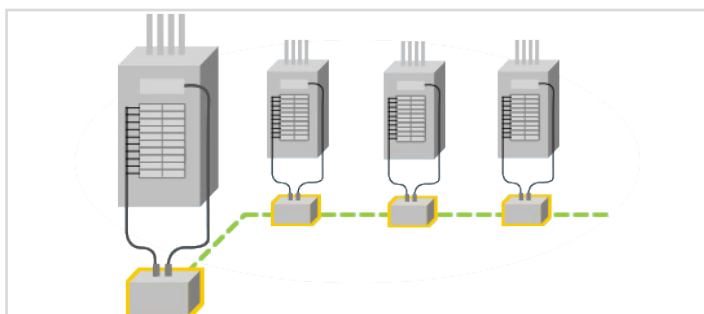
CT Cables

- Branches: **1** **2** **3** **4**
- Mains: **A B C N E**

Components & Features

1. Mains CT cable
2. PMM
3. PMB
4. Mains Voltage Monitoring
5. Mains Current Monitoring

FEATURES



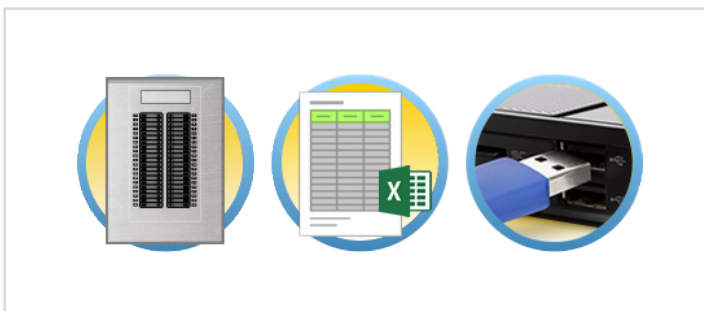
Cost-Effective, Modular & Scalable System

The easy-to-install modular system is available as either a branch circuit or a busway monitor kit. The system's PMC can monitor up to 70 power meter modules (PMMs) in a busway implementation. In a branch circuit monitor configuration, a PMC can monitor up to 8 circuit breaker panels, with 96 branch circuits on each panel.



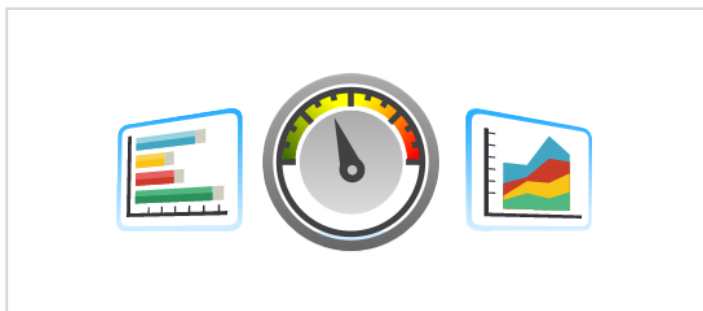
Auto-Correcting CTs For Fast Installation

Auto-correcting split core CTs easily snap around live circuits in either direction without interrupting power to equipment racks.



Real-Time Configurator for Quick Setup

The Raritan BCM system simplifies configuration by allowing users to upload the panel schedule via USB, which helps prevent manual input errors. It seamlessly integrates with DCIM monitoring and BMS software to consolidate facility power and environmental data.



Advanced Metering and Monitoring

The Raritan BCM utilizes the same power, metering, and control technology found in Raritan Rack PDUs. It measures kWh with ISO/IEC 1% billing-grade accuracy, ensuring precise energy efficiency, sustainability, and customer chargeback reporting.

Intelligent Controller

Built-in connectivity with environmental and security sensors, serial, KVM, USB, wired/wireless networks, and asset management tagging make the Raritan BCM a smart and versatile critical facility metering system.

Error-Free Installation

Mount components under a subfloor, on a wall, in an IT rack, or on a DIN rail. Raritan BCM kits include labeled CT wiring harnesses with keyed locking connectors. A real-time configurator shows current and phase readings, allowing you to verify proper installation.

CHOOSE THE COMPONENTS NEEDED

1. SELECT A POWER METERING MODULE

Part Number	Description
PMM-1000	Power meter mains module – three-phase power meter module with neutral and earth current monitoring. It can be connected to PMB-1960.
PMB-1960	Power meter branch module – plugs into PMM-1000 or PMMC-1000 controller modules and monitors up to 96 branch circuits.

2. SELECT A CONTROLLER MODULE

Part Number	Description
BCM2-9610Y	Channel branch circuit meter – Enclosure mount supports up to three-phase 480V. Monitor three-phase mains, neutral, and ground, and up to 96 branch circuits. Metering accuracy $\pm 0.5\%$. Includes an intelligent controller for remote access. Supports daisy-chaining with BCM2-9610Y-G0 – this module does not include a controller.
PMC-1000	Intelligent power meter controller – wall mountable enclosure.
PMC-1001	Intelligent power meter controller – 19" rack mount enclosure.
PMMC-1000	DIN rail mountable controller – includes PMC-1000 with PMM-1000. It can be connected to PMB-1960.

3. DEFINE METERING POINTS (CTS)

Part Number	Description
BCM2-[Current Rating]-CT	Rated for 1A, 60A, 100A, 250A, 400A, 1000A, or 2000A (333mV/ $\pm 0.5\%$ /24"/610mm lead). Also available as a Pack of 3 (BCM2-[Current Rating]-CT-3PK). CTs rated for 60A are available as a Pack of 12 (BCM2-60A-CT-12PK) CTs rated for 250A are available as Pack of 4 (BCM2-250A-CT-4PK) CTs rated for 400A are available as a Pack of 4 (BCM2-400A-CT-4PK)

4. DEFINE CABLING AND MOUNTING NEEDS

Part Number	Description
BCM2-MCTcable-3M	3m (10ft) mains circuit cable for 5 x CTs
BCM2-MCTcable-10M	10m (32ft) mains circuit cable for 5 x CTs
BCM2-BCTcable-3M	3m (10ft) branch circuit cable for 12 x CTs
BCM2-BCTcable-10M	10m (32ft) branch circuit cable for 12 x CTs
Mounting Kits	Multiple options available

Not all part numbers are listed. Please contact a representative for a full portfolio of options.

TECHNICAL SPECIFICATIONS

Meter Measurement Accuracy	Active Power & Energy	0.5%: IEC 62053 Class .5, EN 50470-3 Class C
	Reactive Power	2%
	RMS Voltage & Current	0.2%
	Frequency	0.1%
	Sample Rate	64 x 50 or 60 Hz (phase-locked)
	Measurement Update Rate	3 secs: IEC 61000-4-30 Class S
Conformance	Safety	UL/EN 61010-1
	EMC/EMI	EN61326-1, FCC Part 15 Class A
Voltage Measurement Inputs	Input Range*	90-277V LN, 156-480V L
	Measurement Category	90-277V LN, 156-480V L
	Frequency	50/60 Hz
Current Measurement Inputs	CT Type	Voltage Output = 333 mV at rated current
	CT Rated Current	1-2000A
Environmental	Operating Temperature	0° to 60°C (32° to 140°F)
	Operating Humidity	0% to 95% RH
	Operating Elevation	0-3000m
Power Requirements	Voltage	90-240V
	Current	0.2A

A (Amperage), Hz (Hertz), L (Line), LN (Line to Neutral), m (Meter), mV (Millivolts), RH (Relative Humidity), V (Volt)

*Ratings for models with field wiring terminals. For models with factory-installed line cords, rating is limited by plug, and ratings are labeled on the back of the unit.

To learn more visit
raritan.com/bcm

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