Get a complete picture of your power distribution unit or remote power panel by monitoring circuits and mains

**PowerLogic® BCPM**

branch circuit power meter
**The branch circuit power meter solution**

The ideal solution for data center managers, engineers and operational executives who are responsible for delivering power to critical applications. In corporate and hosted data center facilities, this technology helps you plan and optimize the critical power infrastructure to meet the demands of continuous availability.

The PowerLogic® BCPM is a highly accurate, full featured metering product designed for the unique, multi-circuit and minimal space requirements of a high performance power distribution unit (PDU) or remote power panel (RPP).

The BCPM monitors up to 84 branch circuits and the incoming power mains, to provide information on a complete PDU. Full alarming capabilities ensure that potential issues are dealt with before they become problems.

Unlike products designed for specific hardware, the flexible BCPM will fit any PDU or RPP design and supports both new and retrofit installations. It has exceptional dynamic range and accuracy, and optional feature sets to meet the energy challenges of mission critical data centers.

**Features**

Choose from three feature sets:

- **BCPMA – Advanced**: power and energy per circuit and mains
- **BCPMB – Intermediate**: current per circuit, power and energy per mains
- **BCPMC – Basic**: current only per circuit and mains

For mains monitoring, the BCPM requires 1/3 V CTs, purchased separately through your local sales representative.

**Monitoring**

Monitor 42 or 84 circuits with 2 or 4 CT strips.

<table>
<thead>
<tr>
<th>Current monitoring 100 A CTs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Current accuracy</td>
<td>1% of reading from 2 A to 100 A</td>
</tr>
<tr>
<td>Power accuracy</td>
<td>3% of reading from 1 A to 100 A</td>
</tr>
</tbody>
</table>

(1) Add 1% for 0.8 power factor to 0.5 power factor
(2) Not applicable to BCPMB or BCPMC

**Mains metering**

Two sets of 4 CT inputs (3 phase plus neutral) using 1/3 Volt CTs – auxiliary CTs are ordered separately through your local sales representative.

**Auxiliary 3-phase (mains) metering**

<table>
<thead>
<tr>
<th>Power accuracy</th>
<th>IEC 61036 Class 1, ANSI C12.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage range</td>
<td>90 – 277 V Line to Neutral voltage Inputs</td>
</tr>
<tr>
<td>Voltage accuracy</td>
<td>1% of reading from 90 – 277 V, Line to Neutral</td>
</tr>
</tbody>
</table>

(1) Excludes CTs
(2) Applicable to BCPMA and BCPMB

**Input power**

- Overload capability: 10 k AIC
- Input power: 90 – 277 Vac
- Frequency: 50/60 Hz

**Environment**

- Operating temperature range: 0° to 60° C or 32° to 140° F (<95% RH, non-condensing)
- Storage temperature range: -40° to 70° C or -40° to 158° F

**Ideal for critical power applications and data centers**

Monitor power distribution at the circuit level to:

- Maximize uptime and avoid outages
- Optimize existing infrastructure
- Improve power distribution efficiency
- Track usage and allocate energy costs
- Enable accurate sub-billing

**Dimensions**

- Main PCB: 7.3” (184 mm) x 5.8” (146 mm)
- ¾” (19 mm) CT strips: 20.5” (521 mm) x 1.0” (26 mm)
- 1” (26 mm) CT strips: 24” (610 mm) x 1.0” (26 mm)

**Communications**

The BCPM integrates easily into existing networks

- Modbus RTU protocol
- 2/4 wire RS-485, Parity Even, Odd, None (dip switch selectable)
- 9600, 19.2 K, 38.4 K (dip switch selectable)

**Standards and Safety**

- UL 508, “open type” device
- Installation category: CAT III
- IEC/EN 61010 CE
1/3 Volt low-voltage CT specifications

Accuracy: 1% from 10% to 100% of rated current
Frequency range: 50/60 Hz
Operating temperature range: -15° to 60° C or 5° - 140° F
Storage temperature range: -40° to 70° C or -40° to 158° F
Humidity range: 0 – 95% non-condensing
Leads: 18 AWG, 600 Vac, UL 1015 twisted pair, 1.8m or 70.9” standard length
Max. voltage L-N sensed conductor: 600 Vac

1/3 Volt low-voltage CT dimensions

Small form factor
100/200/300 Amp
• A = 3.78 in (96 mm)
• B = 1.18 in (30 mm)
• C = 1.22 in (31 mm)
• D = 1.18 in (30 mm)
• E = 3.94 in (100 mm)
• F = 4.76 in (121 mm)

Medium form factor
400/600/800 Amp
• A = 4.92 in (125 mm)
• B = 2.87 in (73 mm)
• C = 2.44 in (62 mm)
• D = 1.18 (30 mm)
• E = 5.20 in (132 mm)
• F = 5.94 in (151 mm)

Large form factor
800/1000/1200/1600/2000/2400 Amp
• A = 4.92 in (125 mm)
• B = 5.47 in (139 mm)
• C = 2.44 in (62 mm)
• D = 1.18 in (30 mm)
• E = 7.91 in (201 mm)
• F = 5.94 in (151 mm)

The BCPM uses 1/3 V output split-core CTs for the auxiliary inputs. These CTs are ordered separately from the BCPM through your local Schneider Electric sales representative.
The 2007 award recognizes Schneider Electric for its technological advancements and wide product range in the field of power quality (PQ) and energy management solutions. In total, this is the fourth award that Schneider Electric has received from Frost & Sullivan in recognition of achievements in this arena.* Prithvi Raj, Frost & Sullivan research analyst

### Features

<table>
<thead>
<tr>
<th>BCPMA</th>
<th>BCPMB</th>
<th>BCPMC</th>
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<tbody>
<tr>
<td>Circuit metering</td>
<td></td>
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<tr>
<td>Current per circuit</td>
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<tr>
<td>Present current demand</td>
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<tr>
<td>Max current demand</td>
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<td>Max current</td>
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<tr>
<td>Power per circuit</td>
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<tr>
<td>Present demand</td>
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<tr>
<td>Max demand</td>
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<tr>
<td>Energy per circuit (kWh)</td>
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<tr>
<td>Power factor</td>
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<tr>
<td>Mains metering</td>
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<tr>
<td>Current, per phase</td>
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<tr>
<td>Max current, per phase</td>
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<tr>
<td>Present current demand, per phase</td>
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<tr>
<td>Max current demand, per phase</td>
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<tr>
<td>Power and energy per phase for each auxiliary input</td>
<td>kWh</td>
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<tr>
<td>kW, real power per phase</td>
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<td>Power Factor</td>
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<td>Total</td>
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<td>Per phase</td>
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<tr>
<td>Voltage</td>
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<tr>
<td>Line to line and average L-L of 3 phases</td>
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<tr>
<td>Line to neutral and average L-N of 3 phases</td>
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<tr>
<td>Frequency (Phase A)</td>
<td></td>
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<tr>
<td>Alarm levels (per circuit and mains)</td>
<td>High-high</td>
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<td>High</td>
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<td>Low</td>
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<td>Low-low</td>
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<td>Trip</td>
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**For More Information:**
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Sales@PTSdcs.com

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