

POWERLOGIC® Branch Current Monitor



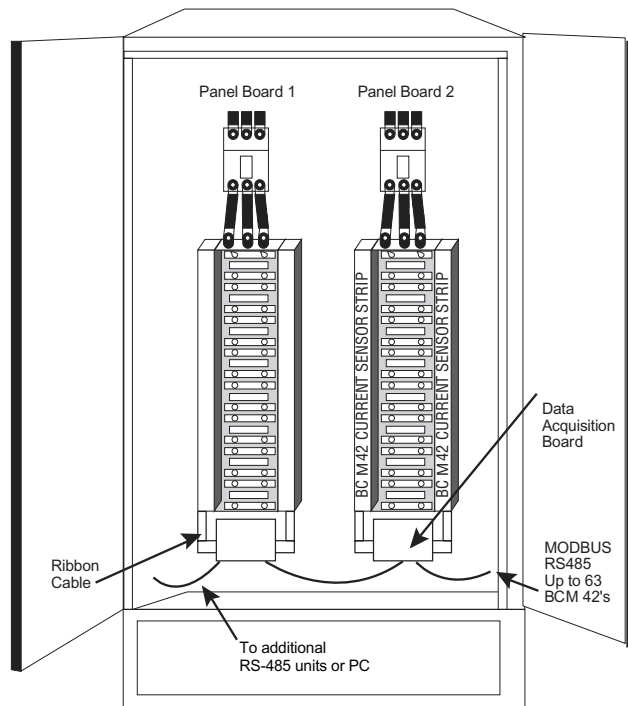
The branch current monitoring system provides a cost-effective solution for electrical load management, making it ideally suited for applications where load capacity requirements are dynamic, such as power distribution units (PDUs) for the data center industry.

The Branch Current Monitor reports the current level of each of the breakers of a panelboard to provide timely circuit loading information. In addition, as a circuit load approaches one of two user set levels, an alarm can be generated back to a monitoring software such as POWERLOGIC® System Manager Software.

A simple solution to individual circuit current monitoring.

- Up to 63 BCM42s can be daisy chained on one MODBUS® RS485 string for easy networking capability.
- One BCM42 provides current levels on each circuit of a 42 circuit NQOD panelboard.
- Current sensors are arranged on 3/4" or 1" centers for ease of installation.
- Provides MODBUS registers for current limit alarms to assist in preventing overload breaker trips.

Typical Power Distribution Unit Installation



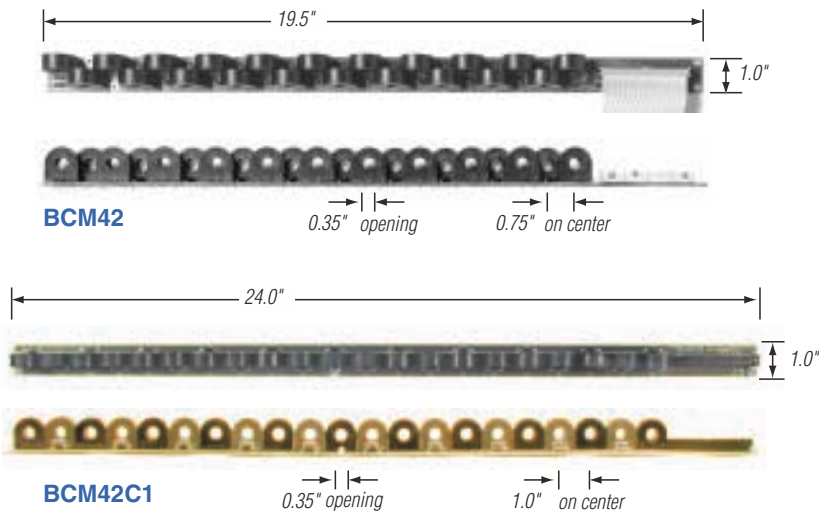
Applications

- Circuit load monitoring
- Load based cost allocation
- Load management
- Load balancing



Dimensions

Current Sensor Strip



Specifications

Operating Temperature Range0 to 60°C (<95%RH, non-condensing)
 Storage Temperature Range-40°C to 70°C
 Power Source 120 VAC (+10/-25%), line-to-neutral, 50/60 Hz

Measured Current Inputs

Number of Channels 42
 Frequency.....50/60 Hz
 Sample Frequency 1280 Hz
 Update Rate 1.2 sec
 Accuracy.....±5% of reading from 5A to 50A
 Current Sensor type Solid-core toroid
 Connection to Conductor Solid-core toroid

Network Communications

Type MODBUS RTU
 Connection DIP switch-selectable 2-wire or 4-wire
 Address DIP switch-selectable address 1 to 247
 Baud Rate..... DIP switch-selectable 2400, 4800, 9600, 19200
 Parity DIP switch-selectable NONE, ODD, EVEN
 Communication Format 8-data-bits, 1-start-bit, 1-stop-bit
 Termination..... 5-position depluggable connector
 (TX+ TX- SHIELD TX+/RX+ TX-/RX-)

Defaults

Warning Alarm Register 60% of current setting (configurable)
 Critical Alarm Register..... 70% of current setting (configurable)
 Current Settings..... 20 Amp (configurable from 10 - 50A)

Dimensions

Circuit Boards	BCM42	BCM42C1
Strips	(L x W) 19.5" x 1.0"	(L x W) 24.0" x 1.0"
Mainboard	(L x W) 7.25" x 5.75"	(L x W) 7.25" x 5.75"
Mounting Brackets		
Strip Brackets	(L x W) 20.31" x .75"	(L x W) 25.063" x .75"
Mainboard Bracket	(L x W x H) 11.37" x 5.75" x 1.12"	(L x W x H) 11.37" x 5.75" x 1.12"
Sensor Spacing	0.75" on center Hole opening 0.350"	1" on center Hole opening 0.350"

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