Adapter Boards for PowerLogic BCPMSC

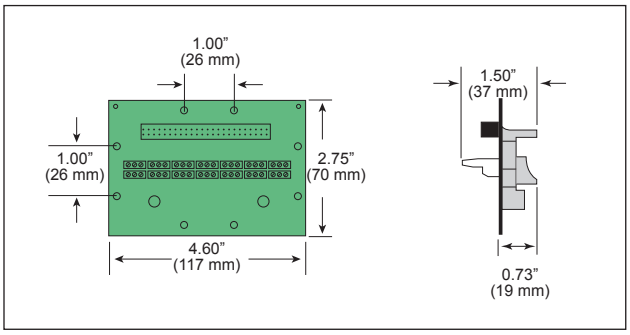
Panelboard Monitoring System with Split-Core CTs

Introduction

The PowerLogic™ Adapter Boards for PowerLogic BCPMSC allow easy modification of your existing BCPMSC Panelboard Meter. The main circuit board accomodates up to four adapter boards.

Dimensions

Figure 1 Adapter Board Dimensions



Installation

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E in the USA or applicable local codes.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Turn off all power supplying equipment before working on or inside the equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Read, understand, and follow the instructions before installing this product.
- Install device in an appropriate electrical and fire enclosure per local regulations.
- ESD sensitive equipment. Ground yourself and discharge any static charge before handling this device

Failure to follow these instructions will result in death or serious injury.

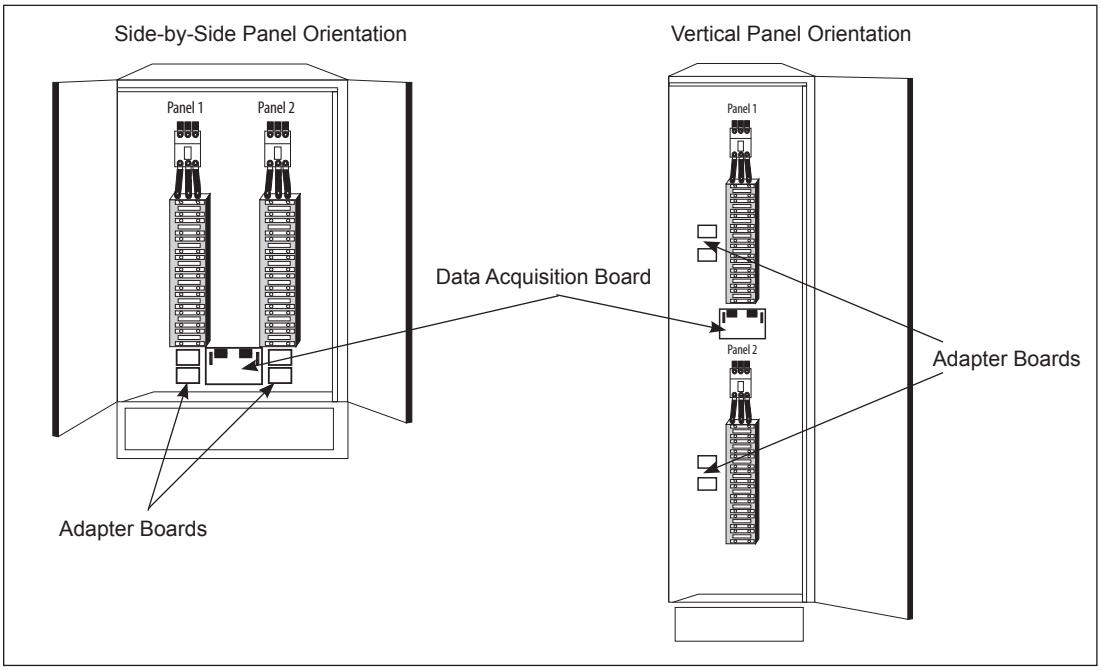
NOTE: If BCPMSC products are installed in circuits with higher voltage ratings, keep the circuits segregated per UL508A Sec. 17.5.

NOTE: 480Y/277 Vac connected (center grounded) power systems operate within the 300 Vac line-to-neutral voltage rating of the BCPMSC Series, and the operational voltage limit (single-phase connection) as the line-to-neutral voltage is 277 Vac in such power systems. Corner-grounded delta 480 Vac systems would not qualify, as the actual line-to-earth voltage is 480 Vac on each leg, exceeding the BCPMSC ratings.

NOTE: BCPMSC internal circuitry (cables and CTs) are not circuits as defined by UL508A, as they do not extend beyond the BCPMSC itself without further fire isolation.

1. Turn off all power to the electrical panel and lock it out. Use a properly rated voltage sensing device to confirm power is off.

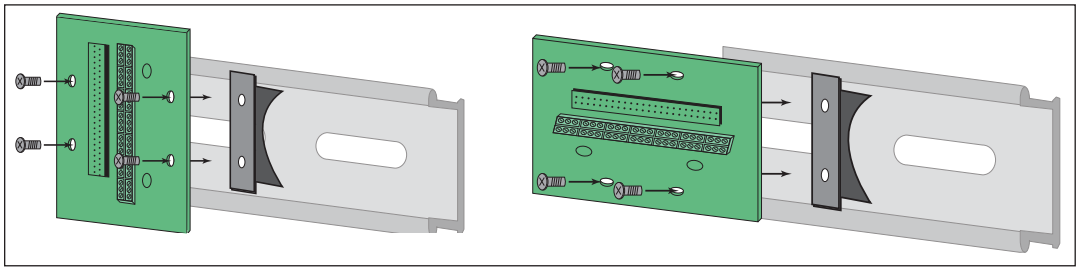
Figure 2 Boards mounted in electrical enclosure



2. Mount the adapter boards in the enclosure using either DIN rail or SNAPTRACK.

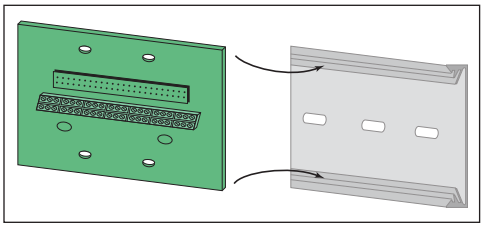
A. DIN Rail: Use the supplied screws to secure the plastic DIN clip to the adapter board. Affix the clip to the DIN rail (Figure 3).

Figure 3 DIN Mounting, Vertical or Horizontal Mount



B. SNAPTRACK: Secure the SNAPTRACK to the mounting surface. Click the adapter board into place (Figure 4).

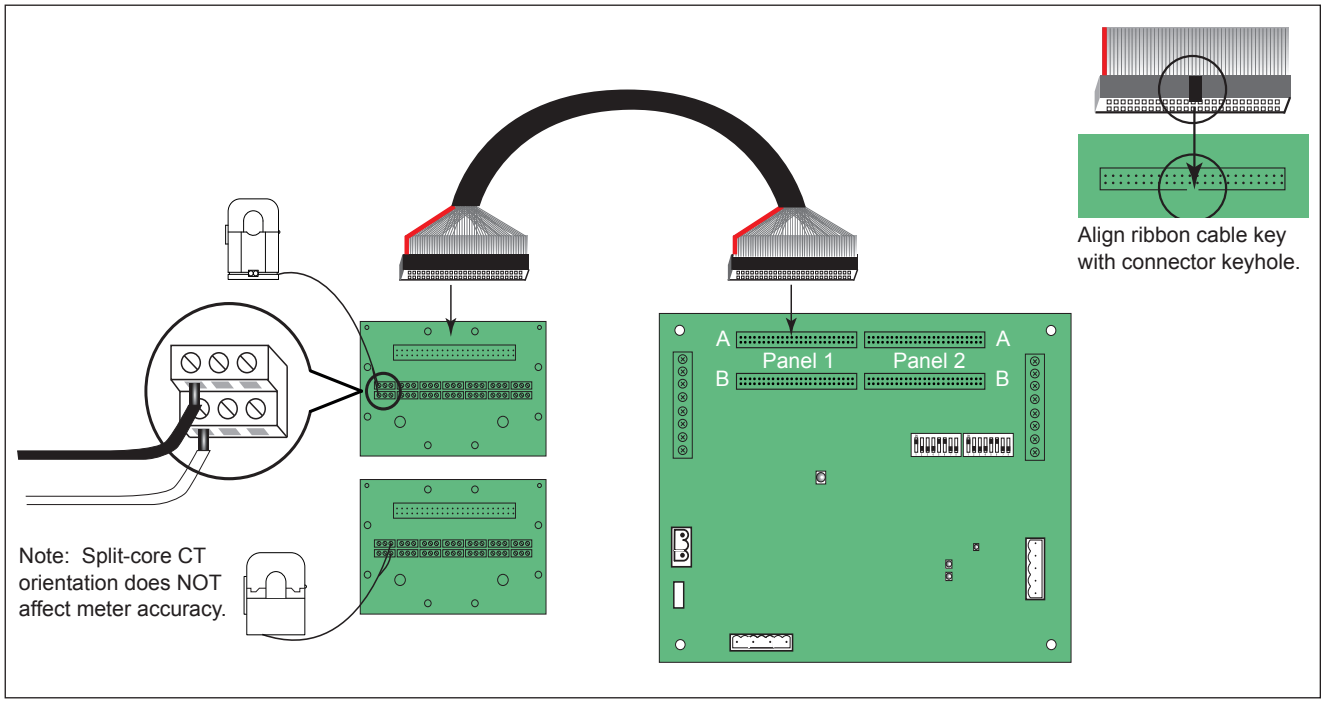
Figure 4 SNAPTRACK Mounting



3. Connect adapter boards to the main board using ribbon cable (Figure 5). Flat and round ribbon cables are available (see Recommended Accessories).

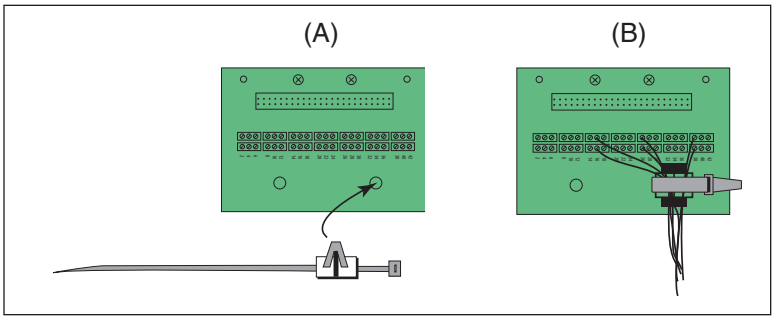
4. Connect split-core CTs to terminals on the adapter boards (Figure 5).

Figure 5 Connect Adapter Boards



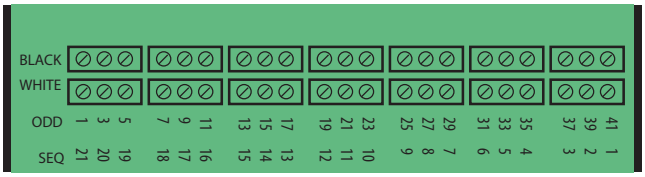
5. Plastic cable ties are included with the product for strain relief. Insert the strain relief device into one of the available holes on the adapter board (Figure 6A). Gather all split-core CT wires connected to that adapter board and secure the cable tie around them (Figure 6B).

Figure 6 Strain Relief



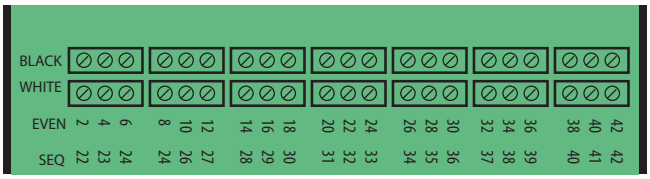
6. The adapter boards are labeled with two rows of numbers. For applications that require odd/even branch circuit numbering, use the row designated ODD or EVEN. For applications that require sequential numbering, use the number row marked SEQ (Figure 7).

Figure 7 Branch Circuit Numbering



Adapter Board A numbering:

ODD	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41
SEQ	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1



Adapter Board B numbering:

EVEN	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42
SEQ	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42

Recommended Accessories

Table 1: Recommended Accessories

Part Number	Description
CBL008	Flat ribbon cable, 50 x 28 AWG, 1.5 ft. (0.45 m)
CBL016	Flat ribbon cable, 50 x 28 AWG, 4 ft. (1.2 m)
CBL017	Flat ribbon cable, 50 x 28 AWG, 5 ft. (1.5 m)
CBL018	Flat ribbon cable, 50 x 28 AWG, 6 ft. (1.8 m)
CBL019	Flat ribbon cable, 50 x 28 AWG, 8 ft. (2.4 m)
CBL020	Flat ribbon cable, 50 x 28 AWG, 10 ft. (3.0 m)
CBL021	Flat ribbon cable, 50 x 28 AWG, 20 ft. (6.1 m)
CBL022	Round ribbon cable, 50 x 28 AWG, 4 ft. (1.2 m)
CBL023	Round ribbon cable, 50 x 28 AWG, 10 ft. (3.0 m)
CBL024	Round ribbon cable, 50 x 28 AWG, 20 ft. (6.1 m)
CBL025	Flat ribbon cable, 50 x 28 AWG, 2 m
CBL026	Flat ribbon cable, 50 x 28 AWG, 4 m
CBL027	Flat ribbon cable, 50 x 28 AWG, 6 m
BCPMSCCT0	Qty. 6 50 A CT, 6 ft. (1.8 m) lead
BCPMSCCT0R20	Qty. 6 50 A CT, 20 ft. (6.1 m) lead
BCPMSCCT1	Qty. 6 100 A CT, 6 ft. (1.8 m) lead
BCPMSCCT1R20	Qty. 6 100 A CT, 20 ft. (6.1 m) lead
BCPMSCCT2	Qty. 6 100 A CT, 4 ft. (1.2 m) lead

NOTE: A field installable Main Circuit Board Cover is also available for both the BCPM and the BCPMSC. Contact your sales professional for more information.

China RoHS Compliance Information

Table 2: EFUP Table

部件名称	产品中有毒有害物质或元素的名称及含量Substances					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
电子线路板	X	0	0	0	0	0
0 = 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下. X = 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求.						
Z000057-0A						

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