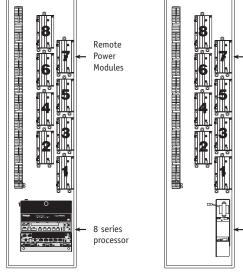# Remote Power Panels (without breakers)

Remote Power Panels are available in two different sizes. The number of Remote Power Panels and the types of components within them may be specified to fit the size, lighting plan, and design of a home.
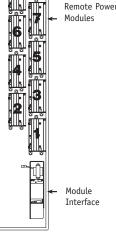
Remote Power Panels may contain HomeWorks® 8 series processors, Remote Power Modules, or Module Interfaces. Shown below are a few of the possible configurations.

EIGHT-MODULE REMOTE POWER PANEL (MODEL HWI-PNL-8-CE)

Accommodates one of the following combinations of components:

Remote Power Modules

8 series processor
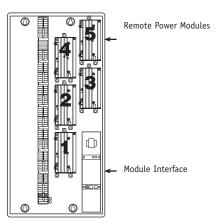
Remote Power Modules

Module Interface

- Processor (1)
- Remote Power Modules (8 maximum)

- Module Interface (1)
- Remote Power Modules (8 maximum)

FIVE-MODULE REMOTE POWER PANEL (MODEL HWI-PNL-5-CE)

Accommodates the following combination of components:

Remote Power Modules

Module Interface

- Module Interface (1)
- Remote Power Modules (5 maximum)
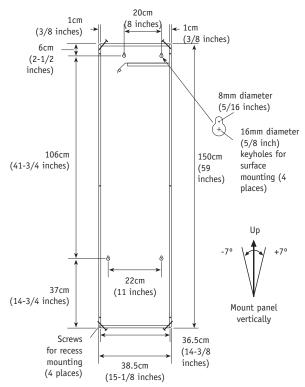
Note: HWI-PNL-5 **cannot** include a HomeWorks processor

COMPONENTS

Remote Power Panels (without breakers)

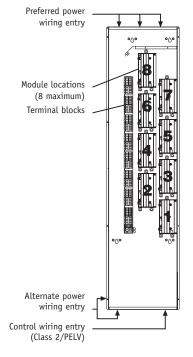|	
Model	HWI-PNL-8-CE: eight module Remote Power Panel.
Capacity	Eight RPMs (HW-RPM-4U, HW-RPM-4E, HW-RPM-4M, HW-RPM-4R, and HW-RPM-4A) and one Module Interface or 8 series processor.
Regulatory approvals	CE, C-TICK
Environment	Ambient temperature: 0-40°C, 32-104°F Ambient humidity: 0-90% humidity, non-condensing. Indoor use only.
Cooling method	Passive cooling. Mount in a place where the vented cover will not be blocked.
Heat generated fully loaded	600 BTUs per hour maximum.
Line-voltage connections	Use copper wire only, supply conductors 60/75°C. DIN rail-mounted terminal blocks provided for line-voltage Remote Power Module (RPM) wiring and processor/MI power. Terminal blocks should be tightened to .40-.57nM (3.5-5.0 inches-pounds). *See page 5.6.*
DIN rail terminal blocks	Terminal blocks will accept one 1.0-2.5mm^2 (#18-10 AWG) wire or two 1.0-1.5mm^2 (#18-16 AWG) wires. Terminal blocks should be tightened to .40-.57 nM (3.5-5.0 inches-pounds). All terminal blocks are shipped with bypass jumpers installed. After verifying that each circuit is wired correctly, remove the bypass jumpers for system operation.
Ground bar terminals	24 ground termination points.
Miswire protection	All terminal blocks are shipped with bypass jumpers installed.
Mounting	Panel must be mounted within 7 degrees from vertical. Allow at least 30cm (12 inches) air space at top and bottom and a minimum of 30cm (12 inches) clearance in front of panel. Remote Power Panels will hum slightly and internal relays will click while in use. Locate where such noise is acceptable. Locate the panel so that line-voltage wiring will be at least 1.8m (6 feet) from audio or electronic equipment and its wiring.
Dimensions	36.5cm (14-3/8 inches) x 150cm (59 inches) x 9.8cm (3-7/8 inches)
Construction	Enclosure: 16-gauge galvanized sheet metal (unpainted). Cover: Painted (black) metal cover with ventilation holes.
Shipping weight	11.4kg (25 pounds)

Remote Power Panels (without breakers)
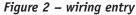
Model	HWI-PNL-5-CE: five module Remote Power Panel.
Capacity	Five RPMs (HW-RPM-4U, HW-RPM-4E, HW-RPM-4M, HW-RPM-4R, and HW-RPM-4A) and one Module Interface.
Regulatory approvals	CE, C-TICK
Environment	Ambient temperature: 0-40°C, 32-104°F Ambient humidity: 0-90% humidity, non-condensing. Indoor use only.
Cooling method	Passive cooling. Mount in a place where the vented cover will not be blocked.
Heat generated fully loaded	420 BTUs per hour maximum.
Line-voltage connections	Use copper wire only, supply conductors 60/75°C. DIN rail-mounted terminal blocks provided for line-voltage Remote Power Module (RPM) wiring and processor/MI power. Terminal blocks should be tightened to .40-.57nM (3.5-5.0 inches-pounds). *See page 5.6.*
DIN rail terminal blocks	Terminal blocks will accept one 1.0-2.5mm^2 (#18-10 AWG) wire or two 1.0-1.5mm^2 (#18-16 AWG) wires. Terminal blocks should be tightened to .40-.57 nM (3.5-5.0 inches-pounds). All terminal blocks are shipped with bypass jumpers installed. After verifying that each circuit is wired correctly, remove the bypass jumpers for system operation.
Ground bar terminals	24 ground termination points.
Miswire protection	All terminal blocks are shipped with bypass jumpers installed.
Mounting	Panel must be mounted within 7 degrees from vertical. Allow at least 30cm (12 inches) air space at top and bottom and a minimum of 30cm (12 inches) clearance in front of panel. Remote Power Panels will hum slightly and internal relays will click while in use. Locate where such noise is acceptable. Locate the panel so that line-voltage wiring will be at least 1.8m (6 feet) from audio or electronic equipment and its wiring.
Dimensions	36.5cm (14-3/8 inches) x 81cm (32 inches) x 9.8cm (3-7/8 inches)
Construction	Enclosure: 16-gauge galvanized sheet metal (unpainted). Cover: Painted (black) metal cover with ventilation holes.
Shipping weight	8.6kg (18 pounds)

Remote Power Panels (without breakers) Installation
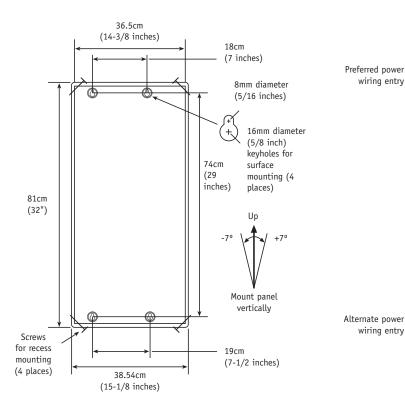

Figure 1 – HW-PNL-8-CE panel dimensions
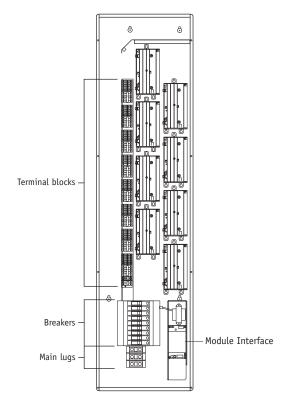*Panel is 9.8cm (3-7/8 inches) deep.*

Figure 2 – wiring entry

Figure 1 – HW-PNL-5-CE panel dimensions
Panel is 9.8cm (3-7/8 inches) deep.

Figure 2 – wiring entry

COMPONENTS

Remote Power Panels (with breakers)

Remote Power Panels with breakers include input breakers and optional 10A output breakers. Remote Power Panels with breakers require only one 3-phase feed from the main distribution panel, reducing the number of wiring connections required.

Terminal blocks

Breakers

Main lugs

Module Interface

Remote Power Panel with input breakers (PBK8-40-13-CE)

Terminal blocks

Module Interface

Remote Power Panel with input and output breakers (PBK8-40-13-10-CE)

Remote Power Panels (with breakers)

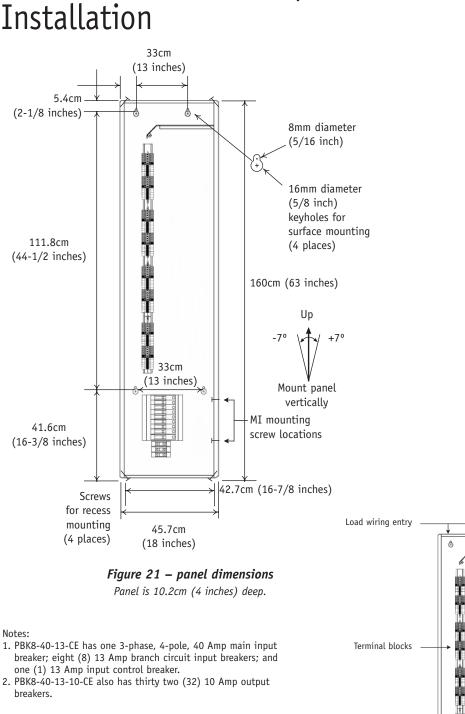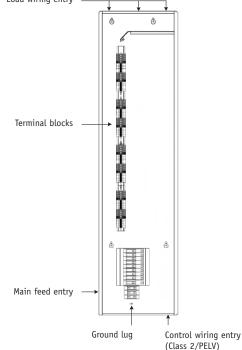|	
Model	PBK8-40-13-CE, PBK8-40-13-10-CE
Capacity	Eight RPMs (HW-RPM-4U and HW-RPM-4A) and one Module Interface or 8 series processor.
Regulatory approvals	CE, C-TICK
Environment	Ambient temperature: 0-40°C, 32-104°F Ambient humidity: 0-90% humidity, non-condensing. Indoor use only.
Cooling method	Passive cooling. Mount in a place where the vented cover will not be blocked.
Heat generated fully loaded	600 BTUs per hour maximum.
Line-voltage connections	Use copper wire only, supply conductors 60/75°C. DIN rail-mounted terminal blocks provided for line-voltage Remote Power Module (RPM) wiring and processor/MI power. Terminal blocks should be tightened to .40-.57nM (3.5-5.0 inches-pounds).
DIN rail terminal blocks	Terminal blocks will accept one 1.0-2.5mm^2 (#18-10 AWG) wire or two 1.0-1.5mm^2 (#18-16 AWG) wires. Terminal blocks should be tightened to .40-.57 nM (3.5-5.0 inches-pounds). All terminal blocks are shipped with bypass jumpers installed. After verifying that each circuit is wired correctly, remove the bypass jumpers for system operation.
Ground bar terminals	40 ground termination points.
Miswire protection	All terminal blocks are shipped with bypass jumpers installed.
Mounting	Panel must be mounted vertically (+/- 7 degrees from vertical). Allow at least 30cm (12 inches) air space at top and bottom and a minimum of 30cm (12 inches) clearance in front of panel. Remote Power Panels will hum slightly and internal relays will click while in use. Locate where such noise is acceptable. Locate the panel so that line-voltage wiring will be at least 1.8m (6 feet) from audio or electronic equipment and its wiring.
Dimensions	42.7cm (16-7/8 inches) x 160cm (63 inches) x 10.2cm (4 inches)
Construction	Enclosure: 16-gauge galvanized sheet metal (unpainted). Cover: painted (black) metal cover with ventilation holes.
Shipping weight	30.9kg (68 pounds)

Remote Power Panels (with breakers) Installation

33cm
(13 inches)

5.4cm
(2-1/8 inches)

8mm diameter
(5/16 inch)

16mm diameter
(5/8 inch)
keyholes for
surface mounting
(4 places)

111.8cm
(44-1/2 inches)

160cm (63 inches)

Up

-7°   +7°

Mount panel
vertically

33cm
(13 inches)

MI mounting
screw locations

41.6cm
(16-3/8 inches)

42.7cm (16-7/8 inches)

Screws
for recess
mounting
(4 places)

45.7cm
(18 inches)

Figure 21 – panel dimensions
Panel is 10.2cm (4 inches) deep.

Notes:
1. PBK8-40-13-CE has one 3-phase, 4-pole, 40 Amp main input breaker; eight (8) 13 Amp branch circuit input breakers; and one (1) 13 Amp input control breaker.
2. PBK8-40-13-10-CE also has thirty two (32) 10 Amp output breakers.

Load wiring entry

Terminal blocks

Main feed entry

Ground lug

Control wiring entry
(Class 2/PELV)

Figure 22 – wiring entry