Remote Power Feed-Through Panels

Remote power feed-through panels are available in two different sizes, each of which may be either surface-mounted or recess-mounted, in an electrical closet or other equipment room. 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 be distributed throughout the home for added flexibility during installation of the line-voltage wiring.

Remote power feed-through panels may contain HomeWorks® remote power modules and 8 Series processors or module interfaces. A few of the possible configurations are shown below.

**EIGHT-MODULE REMOTE POWER FEED-THROUGH PANEL (MODEL # HWI-PNL-8)**

Accommodates one of the following combinations of components:

- 1 8 Series processor
- Up to 8 remote power modules

1 One HW-HIFC-10-2 filter choke may be installed in place of module 8, see pg. 118.

**FIVE-MODULE REMOTE POWER FEED-THROUGH PANEL (MODEL # HWI-PNL-5)**

Accommodates the following combination of components:

- 1 module interface
- Up to 5 remote power modules

**KIT FOR PERMANENT RS-232 CONNECTION IN HWI-PNL-8 (MODEL # HWI-KIT-RS232)**

RS-232 cable (provided)

RS-232 Connector

Bracket

Mounting Screws (3)

Connect Cable to Link 3 or 7

Note: HWI-KIT-RS232 can be installed in HWI-PNL-8, allowing for a connection to RS-232 port without removing the panel cover.
### Remote Power Feed-Through Panels (cont.)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>HWI-PNL-8: Eight-Module Remote Power Feed-Through Panel.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Eight RPMs (HW-RPM-4A, HW-RPM-4U, HW-RPM-4FSQ, HW-RPM-4M, and HW-RPM-4R) in any combination and one module interface or 8 Series processor. <em>See Fig. 3, pg. 151.</em></td>
</tr>
<tr>
<td>Regulatory Approvals</td>
<td>UL, CSA, NOM</td>
</tr>
</tbody>
</table>
| Environment  | Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F  
Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only. |
| Cooling      | Passive cooling. Mount in a place where the vented cover will not be blocked. |
| Heat Generated Fully Loaded | 750 BTUs per hr. 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 wiring and processor/MI power. Terminal blocks should be tightened to 3.5-5.0 in.-lbs. (0.40-0.57 N•m). *See Fig. 2, pg. 151.* |
| DIN Rail Terminal Blocks | Terminal blocks will accept one #18-10 AWG (1.0-2.5 mm²) wire or two #18-16 AWG (1.0-1.5 mm²) wires. Terminal blocks should be tightened to 3.5-5.0 in.-lbs. (0.40-0.57 N•m). 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      | May be surface-mounted or flush-mounted. Panel fits between standard 16 in (406 mm) on-center stud framing. When flush mounting in a 2x4 stud bay, to accomodate the depth of the panel – 4½ in (10.5 cm) – the sheetrock must be built out or a frame must be constructed. Panel must be mounted vertically (+/- 7 degrees from vertical). Allow at least 12 in (30 cm) air space at top and bottom and a minimum of 12 in (30 cm) clearance in front of panel, or allow air space as required by local codes (whichever is greater). Remote power panels will hum slightly and internal relays will click while in use. Mount where such noise is acceptable. Mount the panel so that line-voltage wiring will be at least 6 feet (1.8 m) from audio or electronic equipment and its wiring. |
| Dimensions    | 14½ in (36.5 cm) x 59 in (150 cm) x 4½ in (10.5 cm)  
*See Fig. 1, pg. 151.* |
| Construction  | Enclosure: 16-gauge galvanized sheet metal (unpainted).  
Cover: Painted (black) metal cover with ventilation holes.  
Cover is attached using eight phillips-head screws. |
| Shipping Weight | 25 lbs. (11.4 kg) without RPMs |
Remote Power Feed-Through Panels (cont.)

**Figure 1 – Panel Dimensions and Mounting**

**Note:** The panel is 4½ in (10.5 cm) deep past cover mounting tabs.

- 4½ in (106 cm)
- 14½ in (37 cm)
- 59 in (150 cm)
- 8 in (20 cm)
- 3/8 in (1 cm)
- 15¼ in (38.5 cm)
- 3/8 in (1 cm)
- 2½ in (6 cm)
- 11 in (22 cm)
- 14½ in (37 cm)
- Mount Panel Vertically
- Screws for recess mounting (4 places)
- 5/8 in dia. (16 mm) Keyholes for surface mounting (4 places)
- 5/16 in dia. (8 mm)
- -7º to +7º

**Figure 2 – Wiring Entry**

- Preferred Power Wiring Entry
- Module Locations (8 max.) Terminal Blocks
- Alternate Power Wiring Entry
- Control Wiring Entry (NEC® Class 2)

**Figure 3 – Panel Configurations**

- One HW-HIFC-10-2 filter choke may be installed in place of module 8.

- 1 8 Series processor
- Up to 8 remote power modules
- Remote Power Modules (up to 8)

- 1 module interface
- Up to 8 remote power modules
- Remote Power Modules (up to 8)
- Module Interface
Remote Power Feed-Through Panels (cont.)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>HWI-PNL-5: Five-Module remote power feed-through panel.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Five RPMs (HW-RPM-4A, HW-RPM-4U, HW-RPM-4FSQ, HW-RPM-4M, and HW-RPM-4R) in any combination and one module interface. See Fig. 2, pg. 153.</td>
</tr>
<tr>
<td>Regulatory Approvals</td>
<td>UL, CSA, NOM</td>
</tr>
</tbody>
</table>
| Environment | Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F  
Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only. |
| Cooling | Passive cooling. Mount in a place where the vented cover will not be blocked. |
| Heat Generated Fully Loaded | 475 BTUs per hr. 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 wiring and processor/MI power. Terminal blocks should be tightened to 3.5-5.0 in.-lbs. (0.40-0.57 N•m). See Fig. 2, pg. 153. |
| DIN Rail Terminal Blocks | Terminal blocks will accept one #18-10 AWG (1.0-2.5 mm²) wire or two #18-16 AWG (1.0-1.5 mm²) wires. Terminal blocks should be tightened to 3.5-5.0 in.-lbs. (0.40-0.57 N•m). 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 terminations points. |
| Mounting | May be surface-mounted or flush-mounted. Panel fits between standard 16 in (406 mm) on-center stud framing. Panel must be mounted vertically (+/- 7 degrees from vertical). Allow at least 12 in (30 cm) air space at top and bottom and a minimum of 12 in (30 cm) clearance in front of panel, or allow air space as required by local codes (whichever is greater). Remote power panels will hum slightly and internal relays will click while in use. Mount where such noise is acceptable. Mount the panel so that line-voltage wiring will be at least 6 feet (1.8 m) from audio or electronic equipment and its wiring. |
| Dimensions | 14 3/8 in (36.5 cm) x 32 in (81 cm) x 3 7/8 in (9.8 cm) See Fig. 1, pg. 153. |
| Construction | Enclosure: 16-gauge galvanized sheet metal (unpainted). Cover: Painted (black) metal cover with ventilation holes. Cover is attached using six phillips-head screws. |
| Shipping Weight | 18 lbs. (8.6 kg) without RPMs |
Remote Power Feed-Through Panels (cont.)

Note: The panel is 3 7/8 in (9.8 cm) deep past cover mounting tabs.

**Figure 1 – Panel Dimensions and Mounting**

**Figure 2 – Wiring Entry**

**Figure 3 – Panel Configuration**