HC900 Controller
Power Supply Module
Installation and Replacement

Controller Power Supply
900P01 - (current revision number)
900P02 - (current revision number)
900P24 - (current revision number)

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Summary
Enclosed is a new Power Supply module for your HC900 Controller. It can be installed in a:
Standard Controller or Remote I/O Rack Assembly – Figure 1
I/O Rack Assembly with Redundant Power – Figure 2
(Only available on 8 slot and 12 slot I/O Racks)
Redundant Controller Rack Assembly – Figure 3

WARNING
Never attempt to remove the Power Supply module from the controller rack with power applied.

Contents
The power supply module is supplied in a shipping container and protective shipping materials. The container includes an appropriate identification label that matches the label on the module. The Power Supply module should be stored in the shipping container until ready for installation.

Installation Guidelines
The power supply module may only be inserted into a dedicated slot location in the rack as shown in Figure 1, 2, or 3. The safety ground connection of the field power source must be connected to the chassis ground terminal. The power supply ground jumper also connects to the chassis safety ground terminal. See Figure 4 or Figure 5.
Figure 1 – Power Supply in a Controller or Remote I/O rack

Figure 2 – Power Supply in an I/O Rack Assembly with Redundant Power

Figure 3 – PO2 Power Supply in a Redundant Controller Rack
Install or Replace the Power Supply

Installation Procedure

See Figure 1, 2 or 3 for orientation of the power supply and follow the procedure in Table 1 to install or replace a power supply module.

Table 1 Power Supply Module Installation or Replacement

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>If you are installing a new Power Supply, go to step 7. If you are replacing the Power Supply, go to step 2.</td>
</tr>
<tr>
<td>2</td>
<td>Remove power from the power supply to be replaced.</td>
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<tr>
<td>3</td>
<td>Disconnect the power connections from the power supply. See Figure 4 or Figure 5.</td>
</tr>
<tr>
<td>4</td>
<td>Disconnect the safety ground jumper from between the controller chassis and the power supply terminal board. See Figure 4 or Figure 5.</td>
</tr>
<tr>
<td>5</td>
<td>Remove the screws that secure the power supply module assembly to the rack. Note that these screws function to jack the module board assembly away from the rack.</td>
</tr>
<tr>
<td>6</td>
<td>Pull the power supply assembly to remove.</td>
</tr>
<tr>
<td>7</td>
<td>Remove the Power Supply from its shipping container and insert it into the slot location in the rack as shown in Figure 1, 2, or 3. Orient the module to have the Honeywell Logo on the top. Push the power supply module into the slot until the rear connector engages the mating connector of the rack backplane.</td>
</tr>
<tr>
<td>8</td>
<td>Insert a flat screwdriver into the top and bottom holes in the tool secure power supply door and pull the door outward to access the mounting screws.</td>
</tr>
<tr>
<td>9</td>
<td>Secure the new power supply module top and bottom with the captive mounting screws.</td>
</tr>
<tr>
<td>10</td>
<td>Connect the ground jumper between the controller safety ground connection and power supply ground terminal. See Figure 4 or Figure 5.</td>
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<tr>
<td>11</td>
<td>Connect the power wiring to the power supply. See Figure 4 or Figure 5.</td>
</tr>
<tr>
<td>12</td>
<td>Apply/re-apply power to the power supply.</td>
</tr>
</tbody>
</table>

Figure 4– P01/P02 Safety Ground Connections
+24VDC

#14 AWG (2.1 mm²) Copper, 75°C

24V Common

(Ground) Green

(PE Ground) (Yellow/Green)

#14 AWG (2.1 mm²) Copper, 75°C

Field Power Source

Figure 5– P24 Safety Ground Connections