Introduction
The Model PAD-2 is a notification circuit expander with a built-in auxiliary power output. It is listed by Underwriters Laboratories for use with Cerberus Pyrotronics fire alarm control panels. This power source is designed to provide the extra power required in buildings conforming to the Americans with Disabilities Act.

Features
The PAD-2 provides 6 amps of regulated 24 VDC power for multiple uses. All 6 amps can be directed to 4 Notification Appliance Circuits (NAC’s). Each is rated at 3 amps and is power limited. Either 1 or 2 inputs can control the four outputs. These outputs are compatible with all Cerberus Pyrotronics 24 VDC notification appliances.

The PAD-2 also offers a 3 amp auxiliary output for driving other portions of your fire alarm system. This output is power limited and regulated at 24 VDC. When using this output, the total power available from the PAD-2 will not exceed 6 amps.

A trouble contact is provided for monitoring the PAD-2 with a fire alarm panel. It also allows for a contact input. Therefore, the user has the option of connecting it to a conventional fire alarm panel’s existing notification circuit, or controlling it with a TRI series device on intelligent fire systems.

The PAD-2 offers battery supervision and management as is required of fire alarm system components. Ground faults are transmitted as are any other trouble conditions. Trouble conditions not only change the state of the trouble contact in the unit, they also break the notification circuit input to create a trouble signal in the fire alarm control.

This product is packaged in its own sheet metal enclosure with enough space to house the 7 amp-hour battery set required for back-up. The enclosure is black and displays the Cerberus Pyrotronics logo. The PAD-2 is listed by Underwriters’ Laboratories, Inc.

Options
One or both PAD-2 signal inputs control the notification
outputs, depending on the specific configuration setup. Possible configurations for the PAD-2 are:

<table>
<thead>
<tr>
<th>Option</th>
<th>These Inputs</th>
<th>Control These Outputs</th>
<th>As:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Input 1</td>
<td>All Outputs</td>
<td>Class B Circuits</td>
</tr>
<tr>
<td>2</td>
<td>Input 1, Input 2</td>
<td>Outputs 1 and 2, Outputs 3 and 4</td>
<td>Class B Circuits</td>
</tr>
<tr>
<td>3</td>
<td>Input 1, Input 2</td>
<td>Output 1, Output 2, Outputs 3 and 4</td>
<td>Class B Circuits</td>
</tr>
<tr>
<td>4</td>
<td>Input 1</td>
<td>Outputs 1-2 and 3-4</td>
<td>Class A Circuit Pairs</td>
</tr>
<tr>
<td>5</td>
<td>Input 1, Input 2</td>
<td>Outputs 1-2, Outputs 3-4</td>
<td>Class A Circuit Pairs</td>
</tr>
<tr>
<td>6</td>
<td>Input 1, Input 2</td>
<td>Outputs 1-2, Outputs 3 and 4</td>
<td>Class A Circuit Pairs, Class B Circuits</td>
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**Specifications**

**Electrical**
- **AC Input:** 120 VAC @ 2 amps
- **Output:** 24 VDC @ 6 amps
- **Auxiliary Power Circuit:** 1
- **Notification Circuits:** 4
- **Output Configuration:** 2 Class A or 4 Class B or 1 Class A & 2 Class B
- **Amps per Output Circuit:** 3.0
- **Notification Circuit Outputs:** 20.4 to 27.3 VDC at 3.0 amps each, 4.7K ohm EOL resistor required on each Class B circuit
- **No. of Inputs:** 2
- **Input Configuration:** 2 Class B or 2 Class A
- **Input Voltage Range:** 9-32 VDC
- **Battery Charging Capacity:** 7.0 AH
- **Ambient Temp.:** 32°F to 120°F

**Mechanical**
- **Dimensions:** 12"W x 16"H x 3"D
- **Color:** Black

**Indicator Lights**
- **AC Power On:** Green
- **Battery Trouble:** Yellow
- **Ground Fault:** Yellow
- **Auxiliary Trouble:** Yellow
- **Output 1 Trouble:** Yellow
- **Output 2 Trouble:** Yellow
- **Output 3 Trouble:** Yellow
- **Output 4 Trouble:** Yellow

**Supervision**
The Model PAD-2 supervises a variety of functions including:
- Low AC power
- Low battery condition
- Earth ground fault
- Auxiliary output power limit condition
- EOL supervision trouble or power limited condition at an output

When a trouble condition occurs, the PAD-2 creates a trouble condition on the fire control signal circuits to which it is connected. It still maintains the ability to be activated by the fire control. In addition, the PAD-2 provided a Form 'C' trouble relay output as an alternative to using the notification circuit trouble.

**Connection Diagram**

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**Ordering Information**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
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<tr>
<td>PAD-2</td>
<td>500-694275</td>
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| Installation Instructions | 315-094275 |

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