**Installation, Operation, and Maintenance Instructions**

Models equipped with the SPECTRON® Self-Testing/Self-Diagnostic Circuitry

<table>
<thead>
<tr>
<th>Status Indicator Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>One blink ON/pause</td>
<td>Battery not connected</td>
</tr>
<tr>
<td>Two blinks ON/pause</td>
<td>Battery fault</td>
</tr>
<tr>
<td>Three blinks ON/pause</td>
<td>Charger fault</td>
</tr>
<tr>
<td>Four blinks ON/pause</td>
<td>Transfer circuit fault</td>
</tr>
<tr>
<td>Five blinks ON/pause</td>
<td>Emergency Lamp fault</td>
</tr>
</tbody>
</table>

**LED Status Indicator**

A bicolor LED (red/green) is provided on the control panel of all models equipped with Spectron option.

**Green Operating Status Indicator**

The green Operating Status Indicator serves as both an AC power and test indicator. During normal operation, the green Operating Status Indicator will be illuminated, indicating the presence of AC power. During all automatic or manual self-test cycles, the green Operating Status Indicator will blink at a 1 Hz rate.

**Red Service Alert Indicator**

Under normal operating conditions, the red Service Alert Indicator will remain off. In the event the Spectron controller detects a malfunction, the red Service Alert Indicator will blink at a 1 Hz rate, based on the following table:

<table>
<thead>
<tr>
<th>Red Status Indicator Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>One blink ON/pause</td>
<td>Battery not connected</td>
</tr>
<tr>
<td>Two blinks ON/pause</td>
<td>Battery fault</td>
</tr>
<tr>
<td>Three blinks ON/pause</td>
<td>Charger fault</td>
</tr>
<tr>
<td>Four blinks ON/pause</td>
<td>Transfer circuit fault</td>
</tr>
<tr>
<td>Five blinks ON/pause</td>
<td>Emergency Lamp fault</td>
</tr>
</tbody>
</table>

**OPERATION**

**Automatic Tests**

The unit will automatically initiate a self-test/self-diagnostic cycle based on the following table:

<table>
<thead>
<tr>
<th>Testing Period</th>
<th>Duration of Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Once a month</td>
<td>1 minute</td>
</tr>
<tr>
<td>Once every 6 months</td>
<td>Alternating: 30 minutes or 60 minutes</td>
</tr>
</tbody>
</table>

**Manual Tests**

When using the unit test switch, users can initiate different duration test cycles based on the following table:

<table>
<thead>
<tr>
<th>Initiating Action</th>
<th>Test Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press test switch once</td>
<td>1 minute</td>
</tr>
<tr>
<td>Press test switch twice</td>
<td>90 minutes</td>
</tr>
</tbody>
</table>

**TROUBLE SHOOTING**

- "EXIT" legend does not illuminate
  - check wiring connections
- Emergency Circuit does not work
  - Batteries are shipped uncharged and disconnected. Connect power pack leads charge before testing.
  - Make sure charger board is properly seated.
  - Check wiring connections.

**MAINTENANCE**

SIGNS should be tested and maintained in accordance with National Electrical Code and NFPA 101 Life Safety Code requirements. It is recommended that emergency exit signs be tested for 30 seconds once a month and for 90 minutes once a year.

**RECYCLING INFORMATION**

All thermoplastic parts are recyclable.
All cartons contain recycled materials.
Please recycle responsibly.

**NOTICE:**

Emergency model exit signs contain rechargeable Nickel Metal Hydride batteries which must be recycled or disposed of properly.

**IMPORTANT SAFEGUARDS**

When using electrical equipment, basic safety precautions should always be followed including the following:

1. Do not use outdoors.
2. Do not let power supply cords touch hot surfaces.
3. Do not mount near gas or electric heaters.
4. Equipment should be mounted in locations and at heights where it will not readily be subject to tampering by unauthorized personnel.
5. The use of accessory equipment not authorized by the manufacturer may cause an unsafe condition.
6. Do not use this equipment for other than its intended purpose.
7. Servicing of this equipment should be performed by qualified service personnel.
8. Test cycling: the Life Safety Code (NFPA 101) requires testing of emergency exit signs once a month for a minimum of 30 seconds and once a year for a minimum of 90 minutes.

**INSTALLER:**

- **SEE UNIT LABEL FOR ADDITIONAL MODEL SPECIFICATIONS**
- **SAVE THESE INSTRUCTIONS FOR USE BY OWNER/OCCUPANT**

**WARNING**

This product contains chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm. Thoroughly wash hands after installing, handling, cleaning, or otherwise touching this product.
**WALL MOUNT**

Secure wires with fingers in frame as shown.

Select appropriate knockouts for junction box.

AC transformer:
120VAC - connect to black and white leads.
277VAC - connect to red and white leads.

*For emergency models, plug 2-pin battery connector into PC board here.

Use pre-tinned pigtail leads provided for AC input to sign.

Make connections using quick connectors provided and insert connectors in capture slots. See Detail A.

Secure wires with fingers in frame as shown.

DUAL CIRCUIT TRANSFORMER SECONDARY WIRES

Connect dual-circuit transformer secondary wires to option board input connector here.

Secure wires with fingers in frame similar to incoming power wires.

Option connection wires must be run before sign housing is attached to canopy.

FIRE ALARM PANEL (-FAP) OPTION

FAP option connects to 24 volt AC or DC (purple wires). Flash Rate: .5 seconds on, .5 seconds off.

DC REMOTE (-DC) OPTION

DC Remote option connects to 6-24 volt DC (yellow-, blue+). Flash Rate: .5 seconds on, .5 seconds off.

FLASHER MODULE (-FM) OPTION

Emergency Mode Flash Rate: .5 seconds on, 5 seconds off.

AUDIBLE/FLASHER MODULE (-AF) OPTION

Emergency Mode Beep/Flash Rate: .5 seconds on, .5 seconds off.

IMPORTANT: Option connection wires must be run before sign housing is attached to canopy.

OPTIONS

FAP option connects to 24 volt AC (purple wires). Flash Rate: .5 seconds on, .5 seconds off.

DC Remote option connects to 6-24 volt DC (yellow-, blue+). Flash Rate: .5 seconds on, .5 seconds off.

Dual circuit transformer secondary wires connect to option board input connector here.

Connect option wires (-FAP or -DC) to grey connector on options board.

Secure wires with fingers in frame similar to incoming power wires.