READ AND FOLLOW ALL SAFETY INSTRUCTIONS

WARNING

• Dual Power Supply - Risk of Shock Hazard
  Even if AC Power is OFF
• Disconnect polarized Test Switch / Pilot Light connector before servicing fixture
• DO NOT remove the wire harness connector, if equipped, when AC Power is ON
• DO NOT mount near a gas or electric heater

CAUTION

• Before wiring to power supply, turn off power at fuse panel or circuit breaker
• All servicing shall be performed by qualified personnel
• DO NOT attempt to service the battery pack. It is not field replaceable
• DO NOT use in hazardous locations
• DO NOT use this product outdoors
• DO NOT use this product in air handler heated outlets
• DO NOT use accessory equipment not recommended by the manufacturer
• DO NOT use this equipment for other than its intended use
• DO NOT mount near a gas or electric heater
• DO NOT leave battery/PSSD2 module connected for extended periods of time without a continuously energized branch circuit
• ALLOW unit to charge battery for a minimum of 24 hours before testing

IMPORTANT SAFEGUARDS

• Consult your local building code for approved wiring or installation
• This product is for use with indoor and damp rated fixtures sealed or unsealed
• Equipment should be mounted in a location and at heights where it will not readily be subject to tampering by unauthorized personnel
• When used with a switched fixture, the power to the Wireless (WRS) 5V Power Supply and Emergency Fluorescent Battery Pack or LED Emergency Driver must be provided by an unswitched circuit.
• Damage to the battery will occur if the Test Switch / Pilot Light connection is made for a prolonged period of time without AC power being provided.
• PSSD2 Self-Diagnostic Module and FIDO are not field serviceable
• Allow Emergency Fluorescent Battery Packs or LED Emergency Drivers to charge 24 hrs. before initial and full discharge testing
• Do not locate the Test Switch / Pilot Light or route cable within 1” of the fixture LAMP/LED Modules
• The PSSD2 Self-Diagnostic Module is not compatible with Test Switch / Pilot Lights (TS/PL) not designed for self-diagnostics
• Dispose of any Test Switch / Pilot Lights not supplied with the PSSD2 module

US PATENT NO.
6,577,136 B1
6,522,147 B1
NOTE: The self-diagnostics module is designed to perform self-diagnostic testing for five minutes every month and thirty minutes every six months and ninety minutes every twelve months. The testing consists of a diagnostic evaluation of AC to DC transfer, charging, battery condition and emergency lamp condition. Self-diagnostics works in conjunction with the test switch/pilot light (TS/PL) assembly. Any failures will be indicated by a flashing multi-chromatic LED and an audible alarm (if enabled). See sample of module in Figure 1.

DIAGNOSTIC KEY

<table>
<thead>
<tr>
<th>CONDITION</th>
<th>STATUS INDICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Mode</td>
<td>Steady Green</td>
</tr>
<tr>
<td>Self-Testing</td>
<td>Flashing Green</td>
</tr>
<tr>
<td>Emergency mode</td>
<td>Off</td>
</tr>
<tr>
<td>Insufficient Charge</td>
<td>Flashing Red/Green</td>
</tr>
<tr>
<td>Battery Pack Failure</td>
<td>Single-Flash Red</td>
</tr>
<tr>
<td>Emergency Lamp Failure</td>
<td>Double-Flash Red</td>
</tr>
<tr>
<td>Fixture Diagnostic Failure</td>
<td>Triple-Flash Red</td>
</tr>
</tbody>
</table>

RETROFIT APPLICATIONS

The Self-diagnostics module can be retrofitted on some existing Power Sentry products. Figure 2 specifies these existing products. Please note that the Power Sentry must have these series numbers only. It is not compatible with any prior series.

Fluorescent and LED Battery Packs Compatible with Self-Diagnostics

<table>
<thead>
<tr>
<th>Series</th>
<th>Field-Installed</th>
<th>Date Codes</th>
<th>Factory-Installed</th>
<th>Date Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSQ500</td>
<td>12-21</td>
<td>After July-10</td>
<td>&gt;1007S12</td>
<td>After July-10</td>
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<tr>
<td>PS600</td>
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<td>&gt;1007S15</td>
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<td>PSDL3</td>
<td>12</td>
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<td>&gt;1007S12</td>
<td>After July-10</td>
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<tr>
<td>PS1030</td>
<td>15</td>
<td>After July-13</td>
<td>&gt;1307S15</td>
<td>After July-13</td>
</tr>
</tbody>
</table>

MOUNTING IN WIREWAY

See Figure 4 for part descriptions.

1. If the battery pack has been installed previously, remove and dispose of the existing TS/PL.
2. Determine the best location within the wireway for mounting the PSSD2 module and route wires as needed to clear the chosen location. See Figure 3.

CAUTION: Do not locate SD module TSPL and/or route cables within 1” of fixture lamps.

3. Peel paper backing from the adhesive tape located on the bottom of the PSSD2 module and press module firmly into position.

Note: Adhesive tape is difficult to reposition once applied. Locate mounting position carefully.

Note: If desired, there is a mounting slot on both sides of the module provided for screw mounting. Screws not provided.

4. Plug the test switch/pilot light connector (shipped with the module) into the side of the module.

5. Insert one side of TS/PL into 1/2” hole in the wireway cover and then snap other side into place. Slide mounting clip firmly onto TS/PL mounting post.

6. Make sure to place self-diagnostics status indicator label over the TS/PL for use by maintenance personnel.

Note: If this is a new installation, drilling the 1/2” hole in the desired location of the test switch/pilot light may be required.

Note: The alarm is shipped disabled. If you wish to arm or disarm the audible alarm, you will need to press and hold the TS/PL for 10 seconds.

7. Plug PSSD2 connector end of self-diagnostics module into 4-pin black connector attached to the fluorescent battery pack.

CAUTION: Connecting the PSSD module to the battery pack completes the battery circuit so that high voltage is present on the output lead wires. Do not leave battery/ PSSD module connected for extended periods of time without a continuously energized branch circuit. Allow unit to charge battery for a minimum of 24 hours before testing.

8. The TS/PL should show a steady red color indicating the battery is charging. It will become steady green color when the battery is fully charged.
BACK OF FIXTURE MOUNTING

If there is not enough room in wireway to mount, you can mount to the back of the fixture. You must order the ELA PSMKSD accessory to do this. See Figure 4 for part descriptions.

1. If the battery pack has been installed previously, remove the wireway cover and dispose of the existing test switch/pilot light (TS/PL).

2. Determine the best location on back of fixture for mounting the PSSD2 module.

3. Pop out knockout on back of fixture. If no knockout available, drill a 1" diameter hole in fixture and insert the 36" connectorized lead wire from PSSD2 module through hole into wireway channel.

4. Peel paper backing from adhesive tape located on the bottom of the PSSD2 module and press module firmly into position.

   **Note:** Adhesive tape is difficult to reposition once applied. Locate mounting position carefully.

   **Note:** If desired, there is a mounting slot on both sides of the module provided for screw mounting. Screws not provided.

5. Feed the TS/PL connector (shipped with the module) up through knockout or drilled hole in back of fixture and plug into the side of the module. Add grommeting (not provided) to protect TS/PL wires. Plug 4-pin black connector into the side of the module. Snap the TS/PL down into the hole in the wireway cover.

6. Cover module wires with the ELA PSMKSD (wire cover) accessory.

7. Use screw provided to attach the ELA PSMKSD to back of fixture.

8. Insert one side of TS/PL down into hole in the wireway cover until it snaps into place. Slide mounting clip down firmly onto TS/PL mounting post.

   **Note:** The alarm is shipped disabled. If you wish to arm or disarm the audible alarm, you will need to press and hold the TS/PL for 10 seconds.

9. Make sure to place self-diagnostics status indicator label over TS/PL for use by maintenance personnel.

10. Plug PSSD2 connector end of self-diagnostics module into 4-pin black connector on the battery pack.

   **CAUTION:** Connecting the PSSD2 module to the battery pack completes the battery circuit so that high voltage is present on the output lead wires. Do not leave battery/ PSSD2 module connected for extended periods of time without a continuously energized branch circuit. Allow unit to charge battery for a minimum of 24 hours before testing.

11. The TS/PL should show a steady red color indicating the battery is charging. It will become steady green color when the battery is fully charged.

PSDL3 MOUNTING

See Figure 4 for part descriptions.

1. If the battery pack has been installed previously, remove and dispose of the existing TS/PL and replace with new self-diagnostics TS/PL.

2. Remove knockout on back of external wireway cover box.

3. Feed 4-pin black connector from TS/PL through the front hole in external wiring cover box, then through knockout on the back and plug into the PSSD2 module.

4. Feed PSSD2 module connector down through external wireway cover knockout and attach to 4-pin black connector coming out of the fluorescent battery pack. Feed excess wire into wireway cover box.

   **CAUTION:** Connecting the PSSD2 module to the battery pack completes the battery circuit so that high voltage is present on the output lead wires. Do not leave battery/ PSSD2 module connected for extended periods of time without a continuously energized branch circuit. Allow unit to charge battery for a minimum of 24 hours before testing.

5. Re-secure external wireway cover box to fluorescent battery pack.

6. Cover module wires with the ELA PSMKSD (wire cover) accessory.

7. Peel paper backing from adhesive tape located on the bottom of the PSSD2 module and press module with the ELA PSMKSD attached over external wireway cover knockout.

   **Note:** Adhesive tape is difficult to reposition once applied. Locate mounting position carefully.

8. Use screws provided to attach the ELA PSMKSD to the back of the external wireway cover.

9. Mount TS/PL down where it is visible both in an ON and OFF position and as high up on the downlighting reflector as possible. Use drill to make a 1/2" diameter hole in the reflector. A center-punched drilling point is recommended. Once drilled, use sandpaper to smooth rough edges around the hole.

10. From the back of the reflector, insert one side of the TS/PL into 1/2" hole and then snap the other side into place.

   **Note:** The alarm is shipped disabled. If you wish to arm or disarm the audible alarm, you will need to press and hold the TS/PL for 10 seconds.

11. Make sure to place self-diagnostics status indicator label over TS/PL for use by maintenance personnel.

12. The TS/PL should show a steady red color indicating the battery is charging. It will become steady green color when the battery is fully charged.
INSPECTION NOTES

Emergency lighting systems should be tested as often as local codes require, or at least quarterly to insure that all components are operational.

Maintenance personnel must have a way to differentiate emergency fixtures from non-emergency fixtures. This is done by visibility of the test switch/pilot light.

IMPORTANT: If the test switch/pilot light is not visible once installed on a lensed fixture, the “charge indicator” sticker will need to be placed on the back of the lens directly above the pilot light so it can be identified as an emergency fixture.

PARTS DESCRIPTION

1. Self-Diagnostics (PSSD2) Module
2. TS/PL Cable
3. Test Switch/Pilot Light
4. TS/PL Mounting Clip
5. TS/PL Connector
6. PSSD2 Connector
7. Status Indicator
8. Label TS/PL Loop
9. Mounting Holes or Slots
10. Charge Indicator Label

FOR OPTIONAL FIDO WIRELESS INSTRUCTIONS

SEE WRS INSTALLATION INSTRUCTIONS

FIVE-YEAR TOTAL CUSTOMER SATISFACTION

Complete Customer Satisfaction. This module is guaranteed to perform to our customers’ complete satisfaction for a period of three years from date of invoice. Our guarantee covers any defect in manufacturing, provided the defect develops under normal and proper use. This liability extends only to the replacement of the defective part. Labor charges will be honored by the factory only with prior written approval from our Post Sales Service Department.

If you have questions concerning this product, please contact Technical Support at 1-888-300-7017 or visit our Web site at www.powersentrysafety.com.