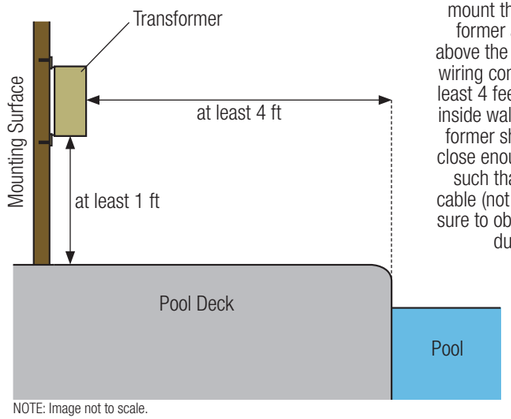
Smart Power Transformer Installation Quick Start Guide

Pre-Installation Checklist

- ☐ Power is removed to all equipment in the system.
- ☐ All precautions have been read in the Owner's manual.
- ☐ All parts listed in the Owner's manual are included in the box.
- ☐ All necessary installation hardware and tools have been gathered.
- ☐ A suitable mounting location that is within reach of the three conductor communication cable (not included) to the Omni Control has been found.
- ☐ Input power source is available that will supply a constant 120 VAC, 60 Hz to the Smart Power Transformer. Note: Do not use a control relay or switch.
- ☐ The load from the lights on each individual zone will not exceed 75 watts AND the load from the lights on all four zones together will not exceed 240 watts (80% of the maximum wattage rating of the transformer).

IMPORTANT: This Quick Start Guide is intended for use as quick reference when installing the Smart Power Transformer. If you have any questions, please refer to the Owner's manual for more information.

1 Mounting the Transformer



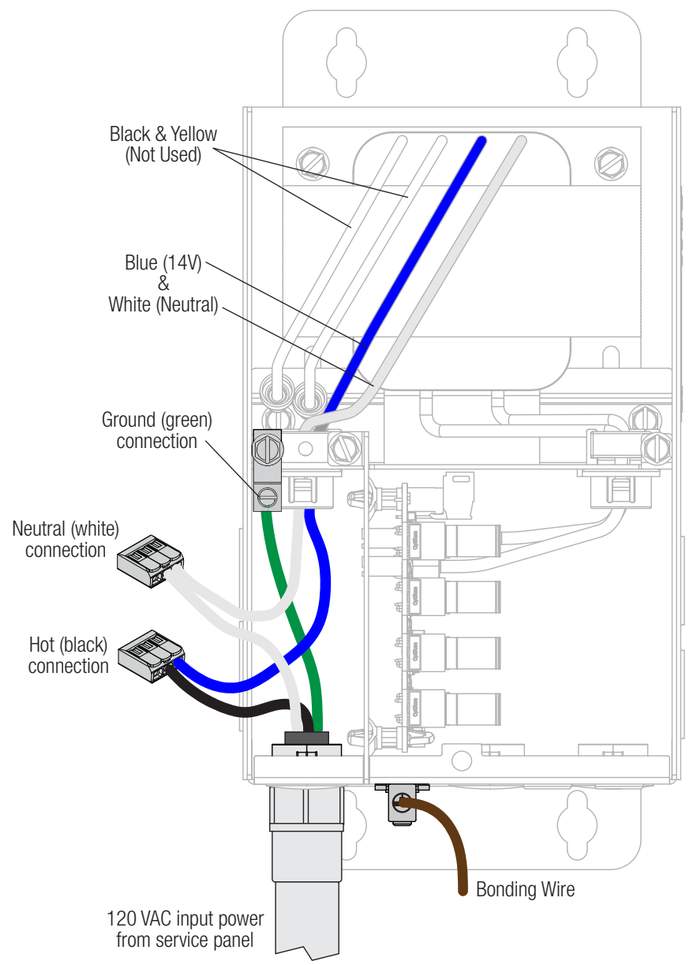
NOTE: Image not to scale.

Use four suitable screws to mount the Smart Power Transformer at least 1 foot (0.3m) above the deck level with the field wiring compartment down and at least 4 feet (1.2m) away from the inside wall of the pool. The transformer should also be mounted close enough to the Omni Control such that the communication cable (not included) will reach. Be sure to observe all building codes during installation.

2 High Voltage Wiring

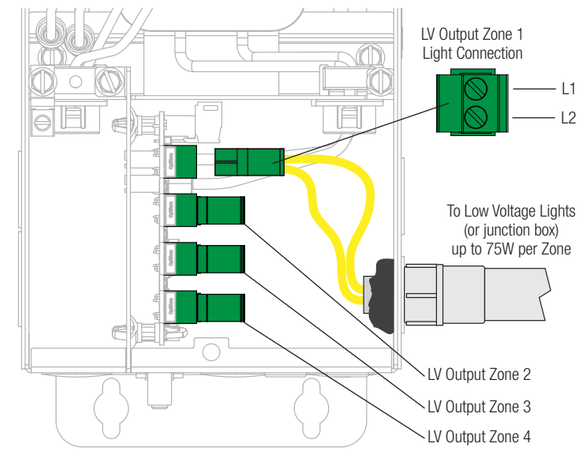
⚠ **WARNING - Risk of Electric Shock.** Verify that all power is removed from the system before you begin wiring the transformer. Be sure to follow all NEC and local codes.

Unlike conventional transformers, the Smart Power Transformer requires a constant 120 VAC, 60Hz input power from a service panel (do not use a control relay or switch). Note that if you are replacing an existing transformer that is wired to a relay, the wire should be moved to the service panel to allow for a constant 120 VAC, 60Hz input power to the transformer.

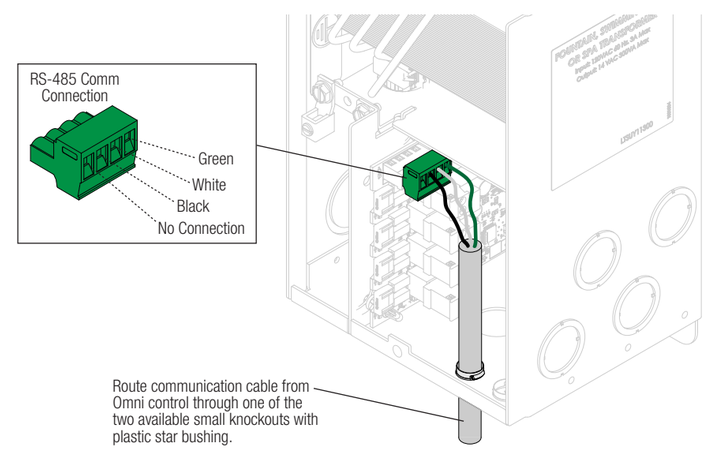


3 Low Voltage Wiring

Output Wiring to Light - When making a direct connection between the Smart Power Transformer and the low voltage light, use the included nonmetallic conduit adapter and duct seal, if necessary. Disconnect the green 2 pin connector from one of the four low voltage output zones and connect the two leads from the light (or junction box) as shown below.



Omni Communication Wiring - The Smart Power Transformer will connect to the same 4-pin low speed communication bus as other Hayward Smart Devices using a three conductor communication cable (not included). Note that only the green, white, and black wires are to be used (no red power connection). Refer to the diagram below.



Turn Over

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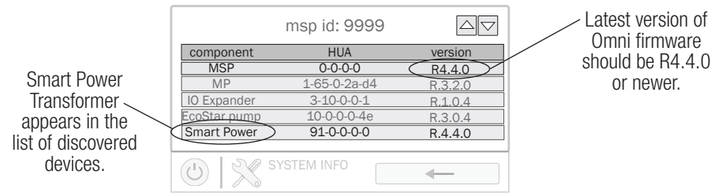
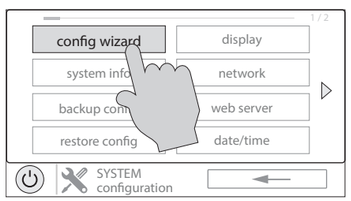
4 Configuring the Lights on a Smart Power Transformer

Verify Communication - Before you begin configuration, you should verify communication between the transformer and the Omni Control. With the covers installed, turn on power to both the Omni control and the Smart Power Transformer then navigate to the System Info screen on the Omni Control as shown below. Verify that the MSP version is R4.4.0 or newer and that the transformer's Hayward Unique Address appears in the list. If the MSP firmware version is older than R4.4.0, follow the upgrade instructions in your Omni Control Operation manual.

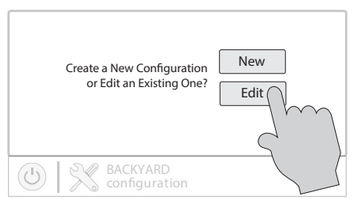


Configuration - Follow the screens below to configure the lights on a Smart Power Transformer. Note that these instructions are for adding the lights to an existing configuration. For new Omni installations, please refer to the Omni Control Installation manual for configuration instructions.

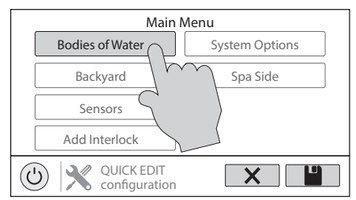
Navigate to the Config Wizard.



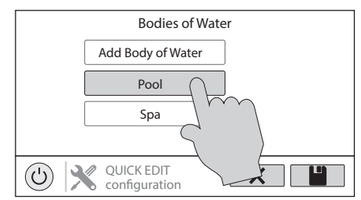
Press "Edit" to edit existing configuration.



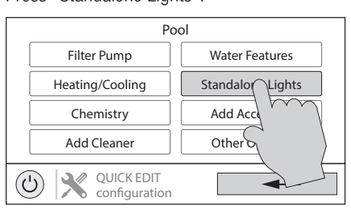
Press "Bodies of Water".



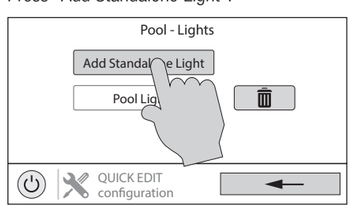
Select the associated body of water.



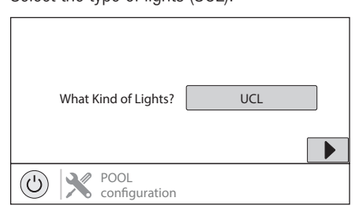
Press "Standalone Lights".



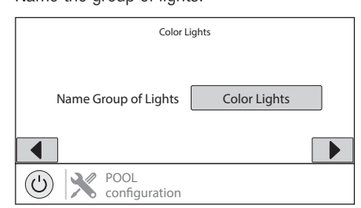
Press "Add Standalone Light".



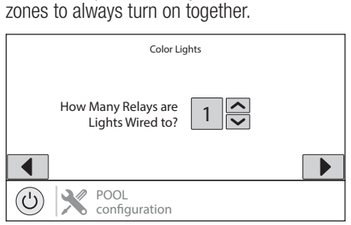
Select the type of lights (UCL).



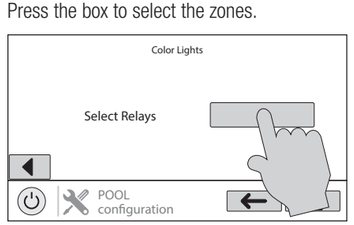
Name the group of lights.



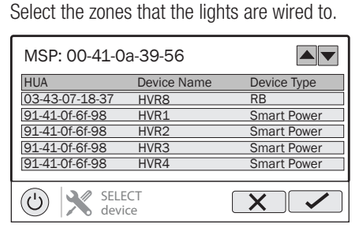
How many LV zones are the lights wired to? Select multiple zones if you would like those zones to always turn on together.



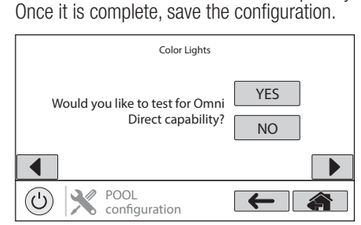
Press the box to select the zones.



Select the zones that the lights are wired to.



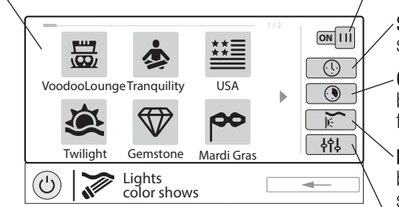
Select "Yes" to test for Omni Direct capability. Once it is complete, save the configuration.



5 Operating the Lights

To turn on the newly configured lights or change their settings, navigate to the lights control screen in whichever body of water the lights were configured to from the Omni Control. A breakdown of all the available light controls are shown in the graphic below.

Selections - Select the desired light show or solid color. Use the triangular arrow button on the right to access more shows/colors.



Lights Control Screen

On/Off - Slide this switch to manually turn on/off the lights. This will override schedule and timer settings.

Schedules - Press this button to set a schedule for the lights.

Countdown Timer - Press this button to set a countdown timer for the lights.

Light Show/Color - Press this button to switch between moving shows and fixed colors.

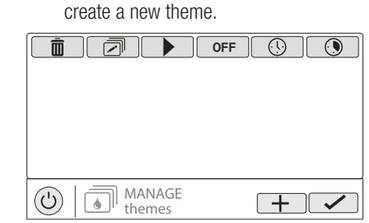
Speed/Brightness - Press this button to change the color transition speed of moving shows or brightness of the lights.

If you have lights that you would like to run together but they are configured separately (pool lights and spa lights, for example), a **theme** can be created. Create a theme by turning on any desired equipment and settings, then following the procedure below. Once created, turning a theme on will turn on the equipment and settings that were used during creation.

Follow the steps below to create a theme:

1. Turn on all lights that you would like to run together in the desired setting (as well as any other equipment that you would like to turn on when the theme is turned on).
2. Press the "themes" button.

3. Press the "+" button at the bottom to create a new theme.



4. Give the theme a name, an icon, and select whether or not you want it to be a favorite and have a countdown timer. Once complete, press the check mark at the bottom to save the theme. Now, all lights that were saved to the theme will turn on and run together when that theme is turned on.