

Installation Instructions



Danger - Locate and lock supply breaker in the OFF position before installing HWI-H48.

 Install HWI-H48 in the enclosure (HWI-LV32 or HWI-LV17). Consult enclosure instructions to determine the correct location. Press the standoff in the upper left hand corner of the board through the pink label marked "48". A 1/4" (7mm) nutdriver can be used to help press in the standoff. Using the #8 x 1/2" screws provided, attach the board through the remaining mounting holes.



Caution - Minimize bending of the board during installation.



Caution - Board components are sensitive to electrostatic discharge.

- 2. Connect Chassis Ground Wire. Using the #8 x 1/4" screw provided, connect the ground wire to the enclosure in any convenient location.
- Set Address. Set the address on the DIP switch to the address assigned to this HWI-H48 by the HomeWorks Utility. Use Table 1 (next page) to determine the switch settings. Each HWI-H48 must have a unique address.
- 4. Connect HomeWorks dimmers and switches. Connect the wiring to the appropriate bus (buses 1-6, 8 devices per bus). Gray and violet connections are marked on the printed circuit board (See Figure 3). Use Class 2, 1-pair twisted/shielded 22–18 AWG (0.5mm²-1.0mm²) cable. Wire in a star, T-tap or daisy chain configuration.



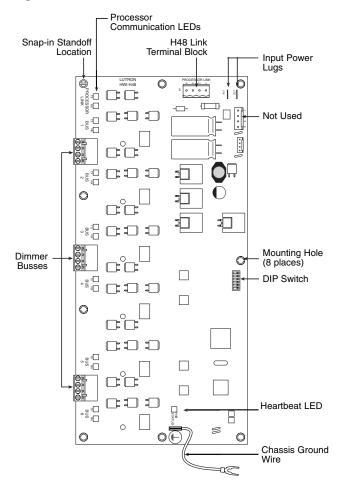
Danger - Do not connect high voltage wiring to the HWI-H48.

- Connect the H48 Link. For HWI-H48s in HWI-LV17 and HWI-LV32 enclosures, only connect pins 1, 3, and 4 using the terminal block provided. Do not connect pin 2 (+15V).
- 6. Terminate the H48 link. If any of the HWI-H48s are located more than 50 feet from the processor, the last H48 on the chain must utilize a link terminator across terminals 3 and 4. LT-1 link terminators that are included with the processor may be used for this application. (See Figure 2). If LT-1s are unavailable, a 1/2 Watt resistor between 100 and 150 Ohms may be placed from pin 3 to pin 4 to provide termination. Termination at the processor end of the chain is also required; a second LT-1 or resistor should be wired from pin 3 to pin 4 on the processor terminal block. (See Figure 2.)

Dimmer Hub

12 V~, 50/60 Hz, 1.0 A max.

Figure 1 - HomeWorks Dimmer Hub Board



Connect the input power. For HWI-H48s in HWI-LV17 or HWI-LV32 enclosures only, connect the two leads from the transformer to the lugs on the HWI-H48. (See Figure 2.)



Caution - Connecting a transformer other than the one provided by Lutron in the HWI-LV17 or HWI-LV32 may result in blowing the fuse on the HWI-H48. Do not connect other transformers to the HWI-H48.

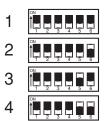
- Turn power ON. Return the supply breaker to the ON position. Confirm that the processor is powered ON as well.
- 9. Check for heartbeat: Check the Heartbeat LED. It should be flashing. If it is off, check the power connections (see step 7). If power is present and the Heartbeat LED is still OFF, turn power OFF and back ON. If this condition persists, contact Lutron.



- 10. Check for processor communications. Check the Processor Communications LEDs. They should be on or blinking. If it is off, communications from the processor have been interrupted. Check the connections at the H48 link terminal block on the HWI-H48 and on the processor. Verify the processor is powered. Verify the link terminator is installed properly.
- If the connected *HomeWorks* dimmer units function intermittently, check bus wiring and HWI-H48 termination. (See step 4 and step 6.)
- 12. For HomeWorks dimmer units that appear to be wired correctly but do not function, verify that the service switch is in the ON position.

Table 1 - DIP Switch Settings

Address Number and Switch Setting





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Figure 2 - LT-1 Installation

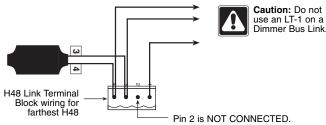
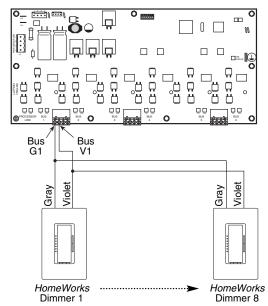


Figure 3 - HWI-H48 to HomeWorks Dimmer Wiring



Technical and Sales Assistance

If you need assistance, call the toll-free *Lutron Technical Support Center*. Please provide exact model number when calling.

(800) 523-9466 (U.S.A., Canada and the Caribbean) Other countries call:

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Visit our web site at www.lutron.com

LIMITED WARRANTY

Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within two years after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid: Telephone the Lutron Technical Support Center foll free at 800-523-9466. After the two year period, a pro-rated warranty applies to this product until eight years after the purchase. For more information regarding this warranty contact your Lutron representative. THIS WARRANTY IS IN LIBLU OF ALL OTHER EXPRESS WARRANTIES. AND THE IMPLIED WARRANTY

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