

Overview

The 4 Series Processor has three (3) configurable communication links allowing connection of *HomeWorks* Wired Keypads, *HomeWorks* Wired Maestro® Local Lighting Controls, and *HomeWorks* Wallbox Power Modules. The central processor provides lighting presets, astronomic timeclock events, security mode, vacation mode, conditional logic, and all other *HomeWorks* programming functions.

A maximum of 10 seeTouch™ keypads (equivalent to 150 LEDs) may be powered by Link 6 on the 4 Series Processor. To power additional keypads, or to use keypads on Links 4 or 5, an additional power supply is required.

Important Notes

Codes: Install in accordance with all local and national electrical codes.

Power: Two separate power inputs exist on this processor:

1. Processor power is provided by the 2 conductor harness that is integral to the HWI-LV24 enclosure. The processor is powered when the green LED labeled "PROC. POWER" is on.
2. Keypads connected to Link 6 are powered by the supplied plug-in adapter connected to the power jack labeled "Link 6 15 V~". Link 6 is powered properly when the green "POWER" LED is on. If the red "SHORT" LED is on, Link 6 is shorted or overloaded.

Both Processor power and Link 6 power must be present for the processor and keypads to function properly.

Processor Power: 12 V~, 20 VA

Link 6 Power: 15 V~/0.9 A Class 2/PELV



Use only the adapter provided by Lutron with the 4 Series Processor.

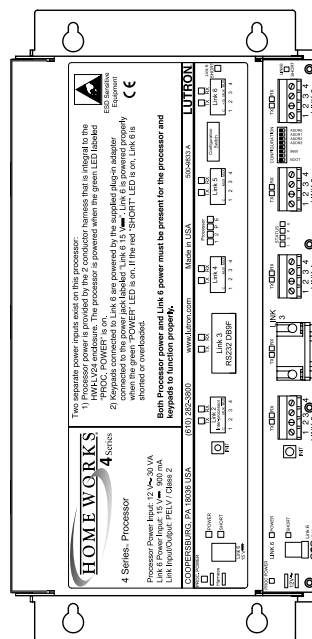


Figure 1 - H4-PO-120

Environment: Ambient operating temperature: 0-40°C (32-104°F), 0-90% humidity, non-condensing. Indoor use only.

Cleaning: To clean, wipe with a clean damp cloth. **DO NOT** use any chemical cleaning solutions.

Installation

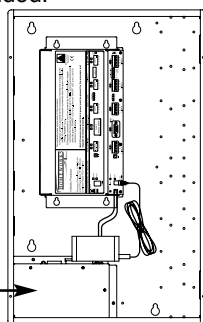
1. Ensure Mains-voltage cover in HWI-LV24 enclosure is securely installed. Locate and lock supply breaker in the OFF position before installing processor assembly.



Danger - Wiring with power on may result in personal injury.

2. **Install processor assembly in the enclosure:** The HomeWorks® 4 Series™ Processor is attached to the HWI-LV24 enclosure using four mounting keyholes and the mounting screws provided.

The 4 Series Processor mounts in the upper left corner of an HWI-LV24 enclosure.



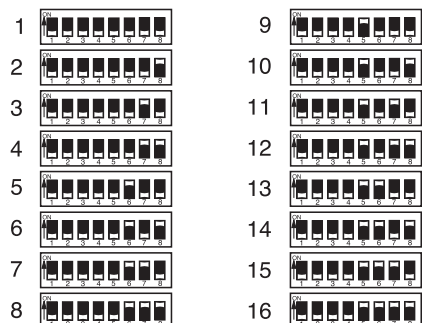
Mains-voltage enclosure (shown with cover installed).

Figure 2 - Mounting Diagram

3. **Set processor address.** Set processor address using Configuration Switch. The HomeWorks Utility will prompt the programmer if any subsequent changes to the configuration switches are required.

Table 2 - Configuration Switch Functions

DIP Switch	Function
1	Boot Mode. Unless prompted by the HomeWorks Utility, this switch should always be in the DOWN position.
2	Diagnostic. This switch should always be in the DOWN position.
3	UP = 9600 Baud, DOWN = Auto Baud detect.
4	Battery disconnect. This switch should always be in the DOWN position.
5-8	Processor Address. See Figure 3, below.



Example: Setting Switch #7 ON. UP (ON)
DOWN (OFF)

Figure 3 - Processor Addressing

4. **Connect Dimmer Hub links:** If HWI-H48 boards are to be controlled by this processor, the communication link to those boards should be connected to the Link 4 terminal block. Do not connect terminal 2 to an HWI-H48. If the H48 Link has a cable length of 50 ft. (15 m) or more, LT-1 link terminators must be installed across MUX and MUX (terminals 3 and 4) at both ends of the link. Refer to HWI-H48 instructions (see Figure 5, page 4).

Note - Links 4, 5 and 6 are configurable for use as Keypad Links, GRAFIK Eye® Links, or H48 Links. These links are configured by the HomeWorks Utility.

5. **Connect Inter-processor Link (multiple processor installations only):** The Inter-processor Link is used for communication between HomeWorks Processors. Connect control wiring to the Inter-processor Link (Link 2), if required. Do not connect terminal 2 (see Figure 5, page 4). If this processor is to be the first or last processor in the daisy chain, attach one of the LT-1 link terminators provided across the MUX and MUX (terminals 3 and 4—see Figure 5, page 3). If LT-1 terminators are unavailable, a 1/2 W resistor between 100 and 150 Ohms may be placed across terminals 3 and 4 to provide termination.

6. **Connect GRAFIK Eye / WPM links:** If GRAFIK Eye pre-set dimming controls or Wallbox Power Modules are to be controlled by this processor, connect the communication wires to Link(s) 4, 5, or 6 as configured in the HomeWorks Utility. Do not connect terminal 2.

7. **Connect Keypad links:** For keypads or keypad link devices (e.g. HWI-CCO-8) that are to be controlled by this Processor, connect the communication wires to Link(s) 4, 5, or 6 as configured in the HomeWorks Utility. **Note:** Connecting keypads or keypad link devices to links other than Link 6 requires an additional power supply.

8. **Connect power.** Plug the power input harness terminals (blue wires) from the HWI-LV24 enclosure onto the power feed lugs on the 4 Series Processor. Connect plug from adapter to Link 6 Power connector. Plug adapter into receptacle in bottom of HWI-LV24. The 4 Series Processor has battery-backed memory and timeclock devices. The battery provides power to these devices during power outages and other temporary power interruptions. In vacation homes and other residences which are not continuously occupied, the 4 Series processor **MUST** be powered by a circuit that is never turned off even when the residence is unoccupied.

9. **Turn power ON.** Restore the supply breaker to the ON position.

10. **Connect Serial Link.** Connect a standard DB9 male connector to the Link 3 RS232 connector on the processor for system programming or communications with other equipment. A standard serial cable (not a null modem) is required for programming the system using a laptop. If, at a later date, the processor is connected to a modem, a null modem adapter will be needed between the processor and the attached modem.

Mounting
Keyhole (4
places)

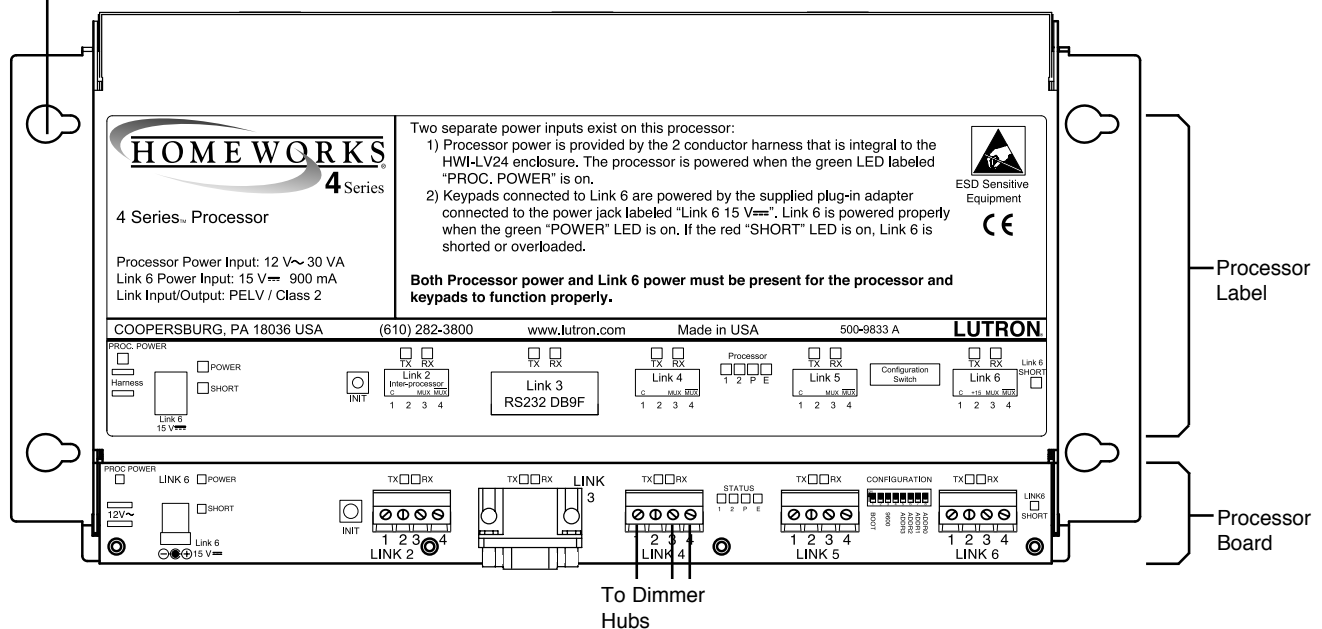


Figure 4 - 4 Series™ Processor

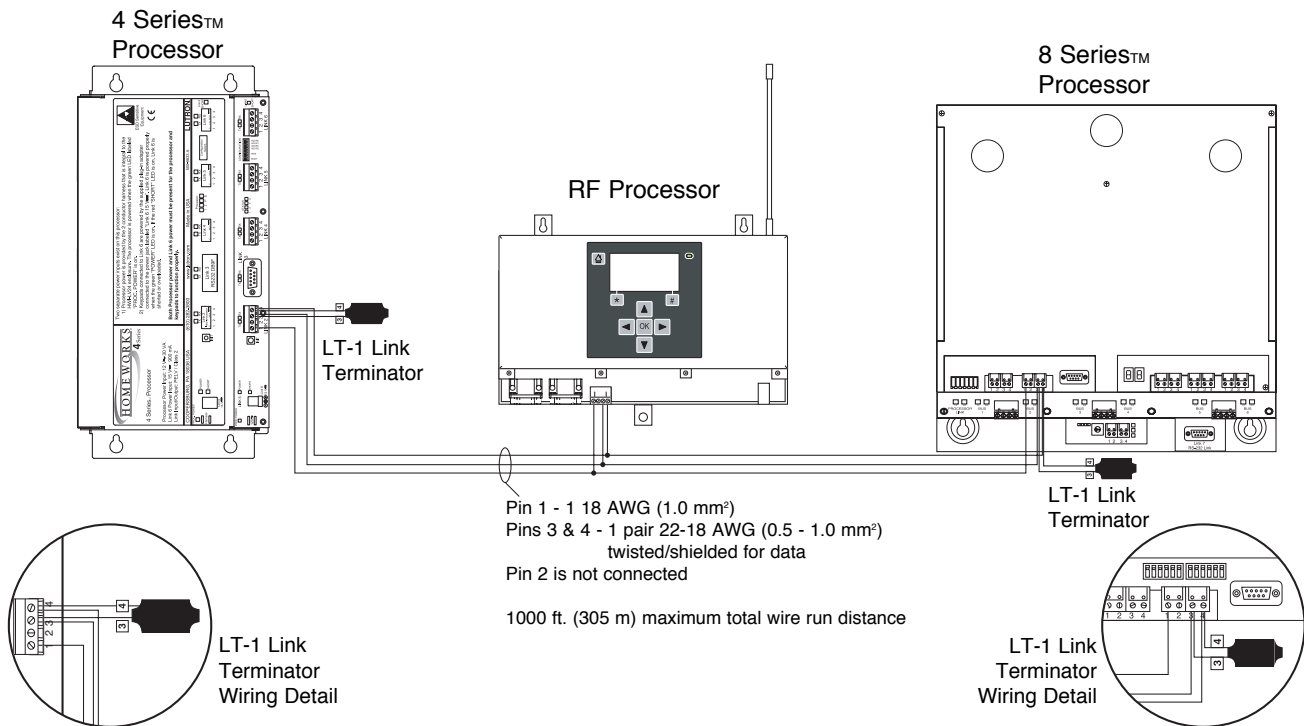


Figure 5 - Daisy Chained HomeWorks® Processors

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:

Tel: (610) 282-3800

Fax: (610) 282-3090

Visit our Web site at www.lutron.com

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