

Installation Instructions

Overview

You may use the HWI-PHAST Interface to connect your HomeWorks Interactive™ Processor to the PHAST® system through any PHASTLink® port. The HWI-PHAST Interface will connect to the HomeWorks Interactive™ System through the RS-232 port on any HomeWorks Interactive™ Processor.

Design notes on the use of Landmark Software.

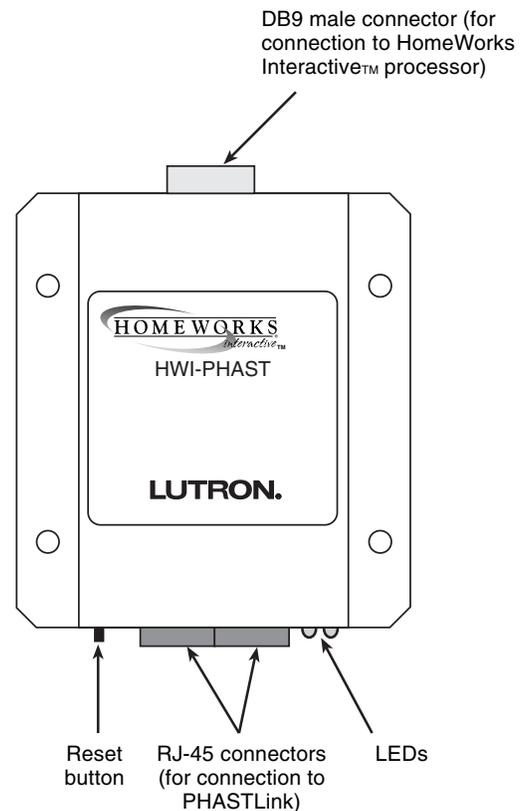
- Under *File>Program Properties>Supported Manufacturers*, of the Landmark™ software, be sure to select the box for *Lutron Interactive*. DO NOT select the box for *Lutron* - that will give you the wrong product line (original HomeWorks®).
- System performance from the Landmark system to the HomeWorks Interactive™ system is excellent if all of the lighting scenes are programmed to real or phantom keypads in the Lutron HomeWorks Interactive™ Utility. System performance is marginal to poor when the individual lighting loads are entered into the Landmark™ software and the scene programming is done exclusively in the Landmark software.
- Any real or phantom keypads that the Landmark system will create button presses for should be put on the design floorplan in the Landmark software. PHAST has a generic 17 button keypad that allows you to get all of the various button combinations that are available on all Lutron keypads.

Double clicking on the keypad in the Landmark Design Screen allows you to edit the keypad properties. The "configuration" tab is where the buttons are added/removed. A pull-down menu labeled "Visible Buttons" allows you to select the Lutron keypad model number for the keypad. On that same tab, the HomeWorks Interactive™ processor address, link number, and keypad addresses are set. Clicking on the "Program" button allows you to program any Landmark system event to occur from a button press on a Lutron keypad (i.e. a HWI-KP5 can be programmed to turn audio on/off, change HVAC modes, etc.). Activating Lutron events from a Landmark keypad is done by selecting the Landmark keypad from the left-hand column in the programming screen and then assigning a Lutron button action in the right half of the screen.

HWI-PHAST

PHASTLink® Interface

Figure 1 - HWI-PHAST Diagram



Connection Hardware from System to System

- HWI-PHAST Interface
- RJ-45 Cable, Cat 5, with a straight through pin configuration for connection of HWI-PHAST to the PHASTLink® port on your PHAST® Landmark™ system (installer provided).
- DB9 male to DB9 female cable with all pins straight through for connection of HWI-PHAST to the HomeWorks Interactive™ processor (installer provided). Maximum cable distance 50 feet (15.25 meters).

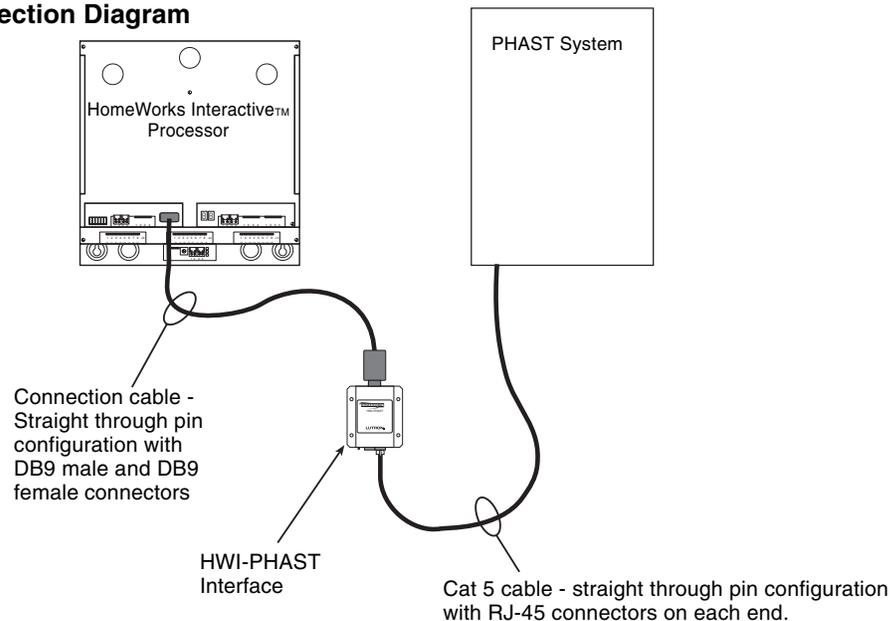
Installation

1. Mount the HWI-PHAST Interface to any indoor surface (#8 screws recommended). Mount in a clean, dry location where temperature will remain between 0°C and 40°C. Do not mount in an area of excessive moisture. Do not mount more than 50 feet (15.25 meters) from the HomeWorks Interactive™ processor.
2. Turn power OFF to the HomeWorks Interactive™ panel that contains the processor.
3. Connect the DB9 female end of the RS-232 cable to the HWI-PHAST Interface and the DB9 male end to the HomeWorks Interactive™ processor and link that was configured for the HWI-PHAST in Step 2.
4. Turn power ON to the HomeWorks Interactive™ panels.
5. Connect one end of the RJ-45 cable to either RJ-45 port on the HWI-PHAST Interface. Connect the other end of the RJ-45 cable to the PHASTLink® port.
6. The red LED on the HWI-PHAST Interface should illuminate.

Communications

1. Open the PHAST® Landmark™ software and make sure you have communications established with the PHAST® system. Verify that both communications lights are green in the upper right hand corner of your screen.
2. Go to the NETWORK page in the Landmark™ software.
3. In the ASSIGNMENT screen, make sure “AUTO ATTACH WHEN POSSIBLE” box is selected. This will auto detect the Lutron device. If detected, the “Lutron System” will appear in the ATTACHED OBJECTS box on the right.
4. Go to the NETWORK LOG screen and observe if the “Lutron System” has a green X next to it in the SHOW MESSAGES FOR box. If the X is not green, double left mouse click on the box to make the X green.
5. Select the "Show Received Packets" box if it is not selected, and deselect the other three boxes.
6. A message stating “HWI System Device is Online” with date and time should periodically appear in the MESSAGES box on the left of the screen. Pressing the reset button on the HWI-PHAST card should produce a pair of messages stating “HWI System” along with the date and time.
7. AMX (formerly known as PHAST) technical support can be reached at 800-222-0193.

Figure 2 - System Connection Diagram



Configuring the HWI system for the HWI-PHAST

Before connecting and configuring the PHASTLink® interface, you must install, program, and test the Lutron HomeWorks Interactive™ System according to its instructions.

Adding a Serial Driver for an HWI-PHAST to Your Project

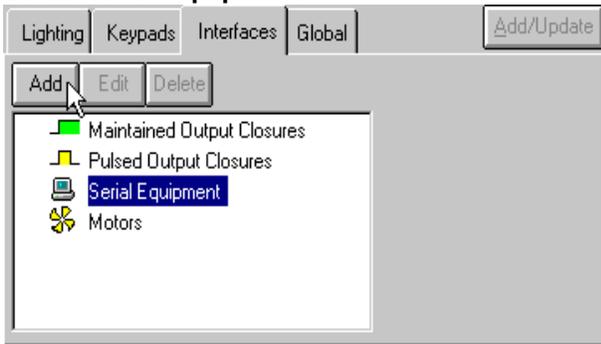
1. Open your destination database.
2. Click on the toolbar to go to the Programming Screen.



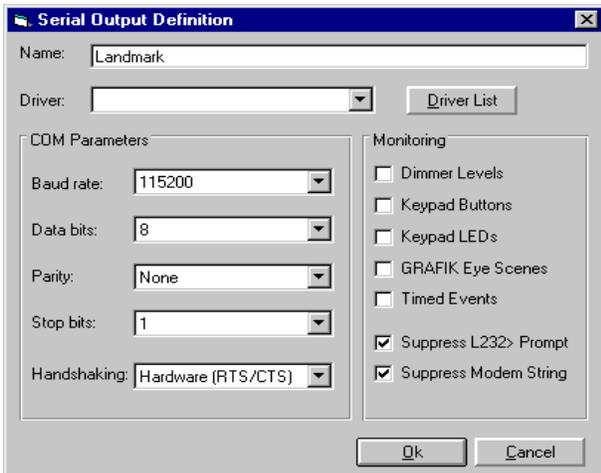
3. Click on the **Interfaces** tab in the upper right of the screen.



4. Select **Serial Equipment**.

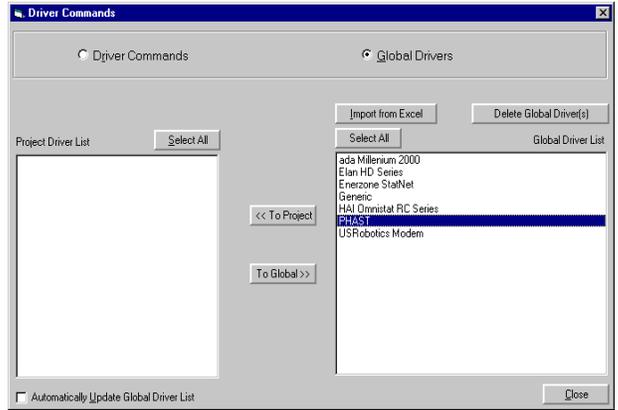


5. Click on the **Add** button.
6. Type in the name of the serial equipment.



7. Click on the **Driver List** button.

8. Click on the **Global Drivers** option at the top of the Driver Commands window.



9. Select the PHAST® serial driver to use from the Global Driver List on the right.

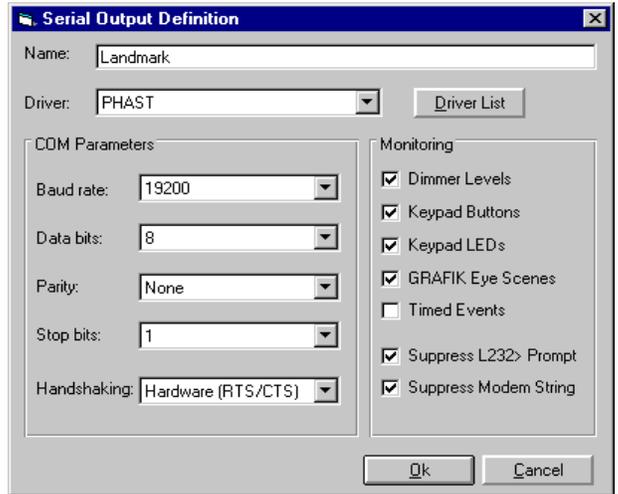
Click the **To Project** button to add the selected driver to your Project Driver List on the left.



10. Click **Close** on the Driver Commands window.



11. The **COM Parameters** and **Monitoring** options will be set correctly once the PHAST® driver is selected.



12. Click on the **OK** button to save the Serial Output Definition.

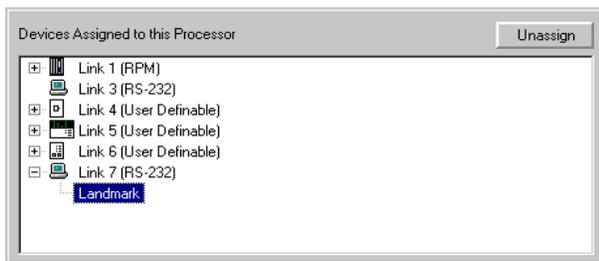


Addressing the Serial Equipment

1. Click the button on the toolbar to go to the Programming screen. 
2. Click on the **Address** tab to go to the address screen. 
3. Select the processor you want to assign the Serial Equipment to.



4. Select the RS-232 Equipment.
5. Select the link that will be connected to the HWI-PHAST (Link 3 or Link 7).
6. Click on the **Assign** button. 



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Troubleshooting

The red LED on the HWI-PHAST is not illuminated.

This condition indicates that the HWI-PHAST Interface is not powered up. Check the following:

- Make sure the Landmark™ system is running.
- Follow the PHASTLink® cable back to the PHASTLink® hub or cardframe, and check the RJ-45 connections, as described in “PHASTLink® Cable Information.”
- Check the Network Assignments tab in the Landmark Designer software and make sure the HomeWorks Interactive™ System has been properly identified and logically connected.
- Turn the HWI processor off and back on.

Reconnecting the HWI-PHAST to the HomeWorks Interactive™ processor after the serial port has been used for programming the HomeWorks Interactive™ System.

1. Turn the power OFF to the HomeWorks Interactive™ Processor.
2. Disconnect the serial cable from the laptop.
3. Reconnect the serial cable to the HWI-PHAST Interface.
4. Turn power ON to the HomeWorks Interactive™ Processor.
5. If it is not functional, re-initialize the HWI-PHAST by disconnecting and reconnecting both RJ-45 PHASTLink® connectors **after** the HomeWorks Interactive™ system is connected and powered up.
6. The HWI processor must be turned off and back on any time it is reconnected to the HWI-PHAST Interface.

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

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 toll 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 LIEU OF ALL OTHER EXPRESS WARRANTIES, AND THE IMPLIED WARRANTY OF MERCHANTABILITY IS LIMITED TO TWO YEARS FROM PURCHASE. THIS WARRANTY DOES NOT COVER THE COST OF INSTALLATION, REMOVAL OR REINSTALLATION, OR DAMAGE RESULTING FROM MISUSE, ABUSE, OR IMPROPER OR INCORRECT REPAIR, OR DAMAGE FROM IMPROPER WIRING OR INSTALLATION. THIS WARRANTY DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES. LUTRON'S LIABILITY ON ANY CLAIM FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE MANUFACTURE, SALE, INSTALLATION, DELIVERY, OR USE OF THE UNIT SHALL NEVER EXCEED THE PURCHASE PRICE OF THE UNIT.**

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