

The PF8 is an 8-input module that generates X10 power line carrier signals in response to all openings or closures of attached external contacts.

Designed for use with X10-compatible computer interfaces and other devices that utilize X10 power line carrier signals.

The PF8 supports devices capable of sending a Status Request command. The response back identifies the state of the input terminal that is queried. A "status on" means that this input is tied to ground (COM). "Status off" indicates that the circuit is open.

There is a 128-event buffer, which stores changes of states of the 8 inputs until the PLC transmission can take place.

Verify Contents of Shipping Container

- PF8 module with the detachable terminal block in place.
- 9VDC, wall-mounted power supply (3.5mm, center positive) **US and Canada only.** (Not needed when Powerlinc is used).
- Modular cable (black) for use with PSC05 or TW523 interface.
- RS232 cable, item 10002. Used for configuring module only.

Not supplied but required for operation

- A power line interface (PowerLincII, PSC05 or TW523)

Installation

Module Location

- The module should not be exposed to water. If used outside, it is necessary to provide a weather proof housing for your PF8.
<http://www.wgl designs.com/r8outdoor.html>
- Mount your module to a smooth dry surface by means of the enclosed Velcro strips.

Wiring the module

- Each of the 8 independent inputs is brought out to a plug in, detachable terminal strips. The terminals labeled COM are connected together internally and may be used interchangeably.
- The numbered terminals correspond to X10 addresses that are established later.
- A contact closure between COM and terminal 1 would result in the first of the assigned X10 address being transmitted.
- Care must be taken that voltages are not connected to these terminals.

Connecting the Power supply & Interface Using X10's PSC05 or TW523

- Two 120VAC outlets are required when using X10's interfaces. One for the interface and one for the power supply.
- The PF8 must connect to a power line interface (PSC05 or TW523) using the furnished back modular cable. Make sure you use the RJ11 jack on the right hand side of the module. It is labeled X10 Interface.
- Plug in the 9VDC (3.5mm, center positive) supply to the jack labeled 9VDC

Connecting the Power supply & Interface Using Smarthome's 1132B PowerLinc

- With the Powerlinc only a single outlet is required as this device provides both power and the power line interface function in one package.
- Using the black RJ45 (8 pins wide) to RJ11 (6 pins wide) cable that came with your Powerlinc, connect the jack on the PF8 in the lower right hand corner labeled "X10 Interface" to the Powerlinc jack.
- It is not necessary to connect the module to a power supply in this instance.

Prepare to Configure the PF8 module

- Please note that the PF8 terminal strip is removable. Gently unplug the portion with screw heads from the socket mounted on the module. Remove the PF8 from the wall and bring it to the location of the PC that will be used for programming.
- Connect the RJ11 connector on the left hand side that is labeled RS232 to a serial port on your PC using the supplied RS232 cable assembly. It is not necessary to provide power for the unit as it can derive what it needs for programming from the serial port.

Setting up your PC

- Download software and start program from <http://www.wgl designs.com/downloads/PF8.zip>
- Set up the Serial Port box, in the lower left corner, by selecting the serial port number to be connected.
- At this point there is no need for anything to be connected to the PF8 other than the serial cable. The power for the unit is derived from the serial port.
- Test the port by pushing the "Apply" Button. If you get a message "module not responding..." verify connections and port assignment. The proper response "module detected" indicates that everything is now ready to program the unit.

Programming the Module

Select the House Code and Unit Code to assign to the 8 inputs.

1. Locate the drop down box in the upper left hand corner of the window. Select the House Code and bank desired.
2. The “control logic” box allows the user to select sending an X10 ON command when contact closure is sensed when no boxes are checked.
3. If the reverse logic is desired where a closure generates an OFF command, it is necessary to check the appropriate box.
4. After the new values have been entered, click on the “load module” button. This causes an upload from the PC to the PF8 memory. Confirm the upload by clicking on the “read module” button.

Troubleshooting with the Status LED

The PF8 features a status LED visible from the term strip side of the module on the left.

No LED

PF8 is not running. Verify Powerline or 9VDC supply connected.

Regular flashing LED

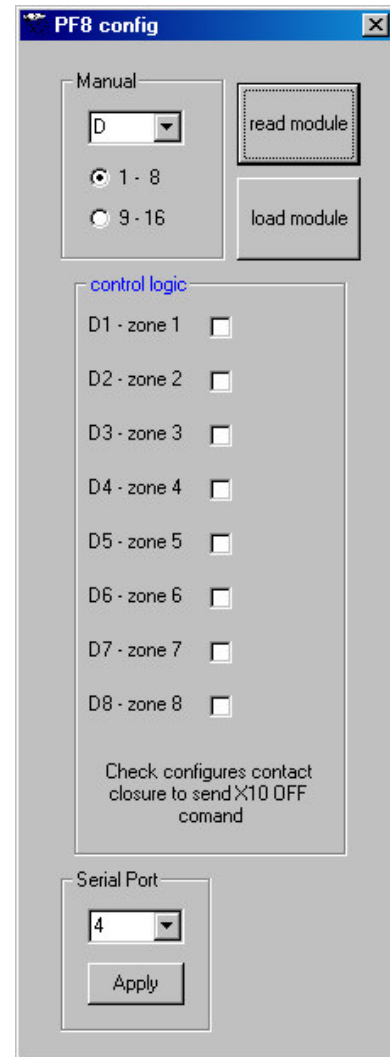
No power line interface detected. Check modular cable and verify correct type. Verify interface plugged in to outlet and connected to PF8 with proper cable.

Steady LED

Everything is working okay. No incoming X10 power line carrier signals.

Intermittent flashing LED, 1 – 2 seconds OFF

Contact state change (open or close) has generated X10 signal.



Problems or Questions?

If help is needed, please do not hesitate to contact us. We want to make your installation as painless as possible. Your suggestions or questions will help us improve this document and our product.

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