

CONFIGURATION

1. From M1 Keypad Programming (or ElkRP Software) perform a Data Bus Enrollment. Upon successful enrollment, the ELKM1 PCSPIM will show up as: SerialPExpdr T5 (M1XSP) located at Addr=07. **This address is factory set and cannot be changed.** If another M1XSP is installed on the M1 and assigned to Address #7 it will need to be changed and re-enrolled.
2. Using ElkRP Software, select the "Globals" Menu and tab "G29-G42 (Special)". Locate and program the UPB Lighting Network Addr (1-255) to match the address chosen for the UPB network being configured.
3. Make certain to program the format for each ElkM1 Lighting device as "Serial Expander".

UPStart Configuration

PCS developed free software (UPStart) and a Powerline Interface Module PIM-R (9-pin serial) or a PIM-U (USB serial), for computer setup and programming of a UPB network. These PIM's can be carried with the technician's PC and used on future jobs. Please note that the ELKM1 PCSPIM cannot be used for the PC setup programming, it can only be used with the ElkM1. The UPStart User's Guide (available on the PulseWorx web site: www.PulseWorx.com) explains how to configure your system using the UPStart.

Follow the steps described below to configure ELKM1 PCSPIM:

SETUP Mode

When configuring a UPB system and specifically the ELKM1 PCSPIM it will be necessary to place it into SETUP mode. To do this, press the Program Button **5** times rapidly. The Status LED will continuously blink Blue while the device is in SETUP mode. To exit SETUP mode, press the Program Button **once** or wait five minutes for it to time out.

Step 1: Add the ELKM1 PCSPIM to the UPB Network

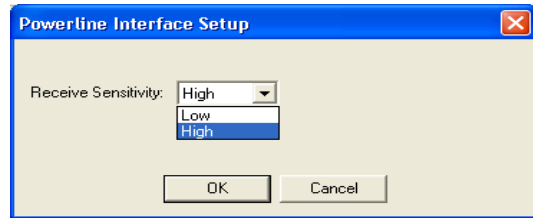
Select the **Device→Add** menu item in the UPStart Setup Software. Provided the ELKM1 PCSPIM is in the Setup Mode UPStart should find it and produce a screen allowing you to assign it a name and choose what room it is located in.

Step 2: Start ELKM1 PCSPIM Configuration

Double-click on the ELKM1 PCSPIM icon to begin configuration. Select the **Advanced** tab to set the receive sensitivity.

The ELKM1 PCSPIM has an adjustment for UPB receive sensitivity. The factory default for this setting is "High". If the ELKM1 PCSPIM is used in severe powerline noise, you may find that it operates better in the "Low" receive sensitivity setting.

To adjust the receive sensitivity press the "Advanced" button on the UPB Interface Setup dialog. Select the desired receive sensitivity and press the "OK" button.



Step 3: Program the ELKM1 PCSPIM

Once the desired configuration is completed, press the Program Device button to program the information into the ELKM1 PCSPIM.

Factory Defaulting (if ever necessary)

In addition to Setup Mode the push-button on the front of the case can be used to restore the device to factory default settings. To set the factory defaults first press the pushbutton **5** times rapidly. The Status LED will blink blue. Now press the pushbutton **10** times. The Status LED will blink red. Finally, press the pushbutton **2** times. The Status LED will stop blinking. The device is now restored to the following factory default settings:

Network ID:	255
Unit ID:	45
Network Password:	1234

OPERATION

Once installed and configured your ELKM1 PCSPIM will operate without further user intervention. All programmed data is protected by nonvolatile memory and can only be changed or deleted by reprogramming, regardless of power outage durations.

Status LED Indications

The PIM-E contains two bi-color (blue/red) Status LEDs that give a visual indication of what UPB information is currently on the powerline and communication with the M1 Bus.

UPB STATUS

Blue:	No UPB Signal
Magenta:	Received a UPB Message
Red:	Transmitted a UPB Message

M1BUS STATUS

Periodic Slow Blink:	Normal Communication with M1
Fast Flicker:	Command sent or received by M1
No Blink/Off:	Communication lost with M1

LIMITED WARRANTY

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in materials and workmanship for a period of five years from the date of purchase. Refer to the warranty information on the PulseWorx website (www.PulseWorx.com) for exact details.

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