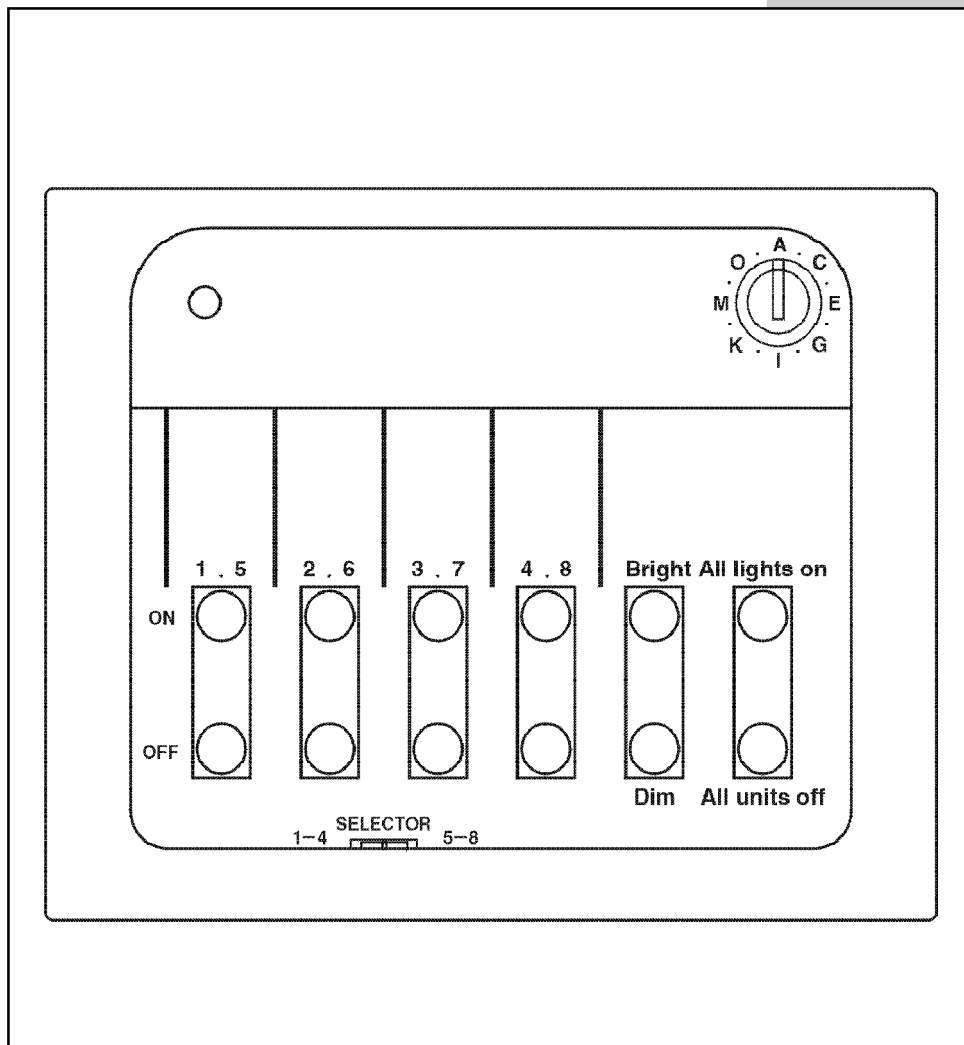




# Sundowner Controller

## Owner's Guide



Sundowner Controller PHC03

## Introduction

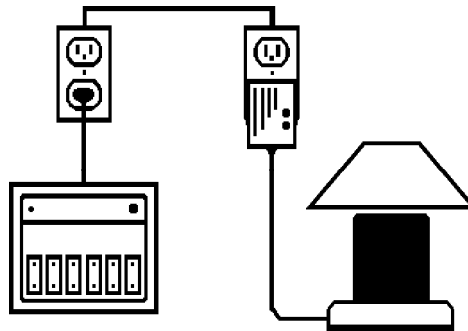
The **X-10 PRO** Sundowner Controller lets you remotely control lights and appliances from anywhere in your home. It also switches lights on automatically at nighttime. You can keep it by the bedside and turn off the TV without getting out of bed. You can turn off your child's radio or night light from your bedroom. You can turn on ALL lights connected to Lamp Modules and Wall Switch Modules with the push of a button if you hear a suspicious noise at night. You can even turn off everything in the system with one button to save energy. How many times have you gone to bed and left the downstairs light on because you didn't want to get out of bed to turn it off? Now you don't have to.

**Caution:** *Be very careful when you use your X-10 PRO Sundowner Controller with any kind of appliance. If you accidentally turn on an empty coffee pot for example, you could burn out the element and even create a fire hazard. Switching on an unattended heater could also cause a serious fire hazard.*

The **X-10 PRO** Sundowner Controller activates lights and appliances throughout your home from any convenient location. The Sundowner Controller transmits signals to the Modules over your existing house wiring. You plug lamps into Lamp Modules, plug appliances into Appliance Modules and replace wall light switches with Wall Switch Modules. You can then control virtually everything electrical in your home. You can also dim and brighten lamps, and have them come on automatically at dusk.

### How it works

The Sundowner Controller tells the Modules what to do. Command signals are sent over your existing house wiring to the Module or Modules of your choice. The Modules respond to the command signals. The Lamp Module turns on and off, dims and brightens any incandescent lamp up to 300 watts. The Appliances Module turns on and off appliances such as a TV (not "instant on" TVs), window fan or stereo. It can also be used for a lamp - but cannot dim it. The Wall Switch Module turns on and off, dims and brightens and incandescent light up to 500 watts, which is normally operated by a wall switch.



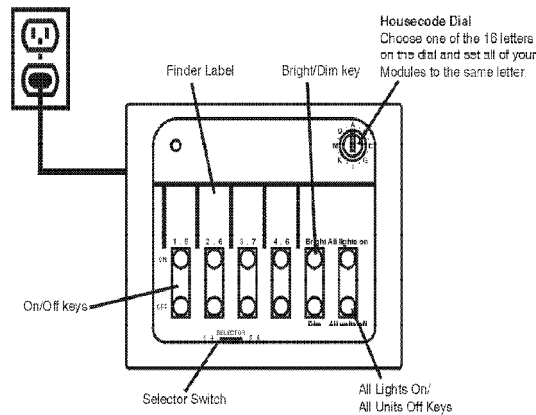
### Setting up the Sundowner Controller

- 1 To install your Sundowner Controller, simply plug the power cord into any functioning 120V outlet. Position the controller where the light sensor on the front of the controller can 'see' the light, e.g. near a window in a room which is usually unlit at dusk.
- 2 Using a small screwdriver, choose one of the 16 letters on the Sundowner Controller's Housecode dial. All **X-10** Modules have a similar red Housecode dial. Set the Sundowner Controller and **all the Modules to be controlled by it** to the same Housecode letter.

## Using the Sundowner Controller

3 Adjust the slider switches on the base of the controller to choose which lights you want to have come on at dusk and off at dawn. Set the sensitivity to max.

Having 16 choices for the Housecode enables you to set up several independent systems in one home without interaction among them. Also, you can avoid interference with, or from a neighbor's system by choosing a different Housecode letter.



### To turn ON a light or appliance

Press and release the TOP of one of the 4 number keys corresponding to the Unit Code set on the Module to be controlled. To turn **all** lights on (i.e. all lamps connected to lamp modules or wall switches set to the same House Code) press the TOP of the All Lights On/ All Units Off key. This key does not affect Appliance Modules.

### To turn OFF a light or appliance

Press and release the BOTTOM of one of the 4 number keys corresponding to the Unit Code set on the Module to be controlled. To turn off **all** modules, including appliance modules, press the bottom of the All Lights On/All Units Off key.

### To Dim or Brighten lights

Press and release the TOP of the number key for the Lamp Module or Wall Switch Module you wish to Dim or Brighten (you can't Dim or Brighten Appliance Modules). Then press the TOP of the Dim/Bright key to Brighten or the BOTTOM of the Dim/Bright key to Dim the light. Hold the key pressed until the desired brightness level is reached.

The Finder Label is a convenient place to indicate the locations of lights and appliances controller by your system. There is one box for each unit key.

### Automatic Light Control

Test the Dusk-to-Dawn operation by covering up the front of the Sundowner with your hand. The lights you selected should come on. Remove your hand and the lights should go off again. Adjust the sensitivity setting for the lights to come on when you want them - a little trial and error may be needed.

## Using the Sundowner Controller

### Problem Solving

#### **If a particular module won't go on or off from the buttons on the Sundowner Controller:**

Check that you have power to the outlet controlling the Module and the switch on the light or appliance is ON.

Check that the Unit Code on the Module is set to the correct number. Check that the Housecode on the Module is set correctly. The Housecode on the Module and the Sundowner Controller must be set to the same letter.

Try plugging the Module and the Sundowner Controller into the same outlet. If the Module doesn't work in ANY outlet, not even with the Module and the Sundowner Controller in the same duplex receptacle (top and bottom) the Module may be damaged or faulty.

#### **If modules won't go on at dusk or off at dawn**

Check that the appropriate switches on the base of the Sundowner Controller are 'ON'. Point the Sundowner Controller directly at a window (do not place it in a dark corner). Note: closing drapes near the Sundowner Controller can cause it to turn on lights elsewhere. Adjust the sensitivity control towards LIGHT to make lights turn **off** later (ie when there is more daylight), or towards DARK to make lights turn **off** earlier (ie when there is less daylight). Make sure that the Sundowner Controller can't 'see' any of the lights it is controlling, otherwise it might 'think' it is light outside.

#### **If you can't control ANY modules from the Sundowner Controller**

Check that you have power to the outlet for the Sundowner Controller. Check that the Housecode on the Sundowner Controller is set correctly. Try plugging the Module and the Sundowner Controller into the same outlet. If NONE of your Modules work in ANY outlet, not even with the Module and the Sundowner Controller in the same duplex receptacle (top and bottom) the Sundowner Controller may be damaged or faulty.

### INTERCOM SYSTEMS

Intercom systems which send voice signals over existing electrical wiring may interfere with the operation of the Sundowner Controller when the intercom is in use. If the Intercom system has it's own separate wiring it will not cause a problem.

### POWER INTERRUPTIONS

When the power is restored after an outage, Lamp Modules and Wall Switch Modules will normally be OFF. Appliance Modules will stay as they were before the interruption.

### MANUAL CONTROL

Lights and appliance connected to plug-in Modules can be turned ON with their own power switch. Simply turn the switch OFF then ON again once or twice. For lamps with three-way bulbs, you will have to rotate the power switch up to 4 times before the light comes on.

The Wall Switch Module can be turned ON or OFF locally using it's push button. The power On-Off switch on the Wall Switch Module is used to completely turn off the power. For example, when changing a light bulb.