

Setup Reference

Longitude _____

Latitude _____

Timers

In the space, enter the offset or the time in the space. Remember **"Military Time!!!"**

Example: for 15 minutes before sunset, enter:

Sunset -15 Sunrise _____ Time _____

Timer 1 – ON Time

Sunset _____ Sunrise _____ Time _____

Timer 1 – OFF Time

Sunset _____ Sunrise _____ Time _____

Timer 2 – ON Time

Sunset _____ Sunrise _____ Time _____

Timer 2 – OFF Time

Sunset _____ Sunrise _____ Time _____



Astronomical Timer Module Installation Manual

Thank you for purchasing the ControlScape Astronomical Single Relay Timer Module.

Overview

The ControlScape Single Relay Astronomical Timer Module can control any AC powered device up to a 15 Amp load. The module features 4 timers, each of which can be set for either:

- a specific time of day
- dusk, with an offset (before or after dusk)
- dawn, with an offset (before or after dawn)

The module calculates dusk/dawn each day for its location. Just enter your latitude and longitude (found in the chart on back of this sheet), in the setup procedure, and the module will take care of all the calculations.

The setup procedure is quite simple and very straight forward. After reading this overview the manual will probably not be required to setup the module, but keep it just in case.

You will be asked to set:

- the current time and date
- your time zone (Eastern, Central, etc)
- if your area observes daylight saving time
- your location (Latitude and Longitude from the sheet included)
- the timers

About the timers. Think of each timer as an event. By example, lets say each night you would like your landscape lights to come on 15 minutes before dusk. This would be one timer or event. Then, you would like the lights to go off at midnight. This would be another timer or event. And so on. Most applications will have a simple on and off time, but you can easily add a second set of on/off times

Basic Operation



The ControlScape Single Relay Astronomical Timer Module has a display and three simple buttons "- / OFF", "+ / ON" and "SET".

For manual operation, pressing the "- / OFF" button will turn the Module OFF and pressing the "+ / ON" button will turn the Module ON.

The "SET" button is used to enter programming and set the values.

To enter programming, press and hold the "SET" button for 3 seconds.

Please follow the simple instructions below to complete your installation. Let's program the module Enjoy

Programming

NOTE: Programming will be much easier if the Relay Timer is plugged into an extension cord, where it can be held for easier viewing. The Relay Timer has a battery backup, so setting will not be lost when disconnected from the power.

To enter "**Programming Mode**", press the SET button for up to 3 seconds until you see "Set Hour".

SET HOUR:
16 Use the – and + buttons to select the current HOUR. Hours are Military, not AM/PM. Press SET when finished.

SET MINUTE:
44 Use the – and + buttons to select the current MINUTE. Press SET when finished

SET DAY:
MONDAY Use the – and + buttons to select the current DAY. Press SET when finished

SET MONTH:
05 Use the – and + buttons to select the current MONTH. Press SET when finished

SET DATE:
11 Use the – and + buttons to select the current DATE. Press SET when finished

SET YEAR:
09 Use the – and + buttons to select the current YEAR. Press SET when finished

SET TIME ZONE:
CENTRAL Use the – and + buttons to select the TIME ZONE. Press SET when finished.

OBSERVE DST?
YES Press YES or NO to indicate if your area observes DAYLIGHT SAVING TIME.

Next, set the latitude and longitude of your location. There is a lookup sheet included with the timer. Find the location that is closest to you and enter those coordinates. It is not necessary to be exact. If you are a contractor in Nashville, the coordinates of 86 and 36 will work quite well anywhere within a 150 mile radius. However if you wish, you may use another source to lookup the exact coordinates for your location.

SET LONGITUDE:
86 Use the – and + buttons to set the Longitude. Press SET when finished.

SET LATITUDE:
36 Use the – and + buttons to set the Latitude. Press SET when finished.

If ON is by actual Time

TURN ON AT:
TIME Use the – and + buttons to set the ON time as an actual TIME, SUNRISE or SUNSET. Press SET when finished.

SET ON HOUR:
18 Use the – and + buttons to set ON Hour. Press SET when finished.

SET ON MINUTE:
00 Use the – and + buttons to set the ON Minute. Press SET when finished.

If ON is by Sunrise or Sunset

TURN ON AT:
SUNSET Use the – and + buttons to set the ON time as an actual Time, Sunrise, or Sunset. Press SET when finished.

SET ON OFFSET:
+45 Use the – and + buttons to set ON Time OFFSET in minutes. Press SET when finished.

If OFF is by actual Time

TURN OFF AT:
TIME Use the – and + buttons to set the OFF time as an actual TIME, SUNRISE or SUNSET. Press SET when finished

SET OFF HOUR:
23 Use the – and + buttons to set OFF Hour. Press SET when finished.

SET OFF MINUTE:
30 Use the – and + buttons to set the OFF Minute. Press SET when finished.

If OFF is by Sunrise or Sunset

TURN OFF AT:
SUNRISE Use the – and + buttons to set the ON time as an actual Time, Sunrise, or Sunset. Press SET when finished.

SET OFF OFFSET:
-15 Use the – and + buttons to set ON Time OFFSET in minutes. Press SET when finished.

Additional ON/OFF Times

USE ADDITIONAL ON/OFF? YES Should you require an additional set of ON/OFF times during a 24 hour period, select YES, otherwise select NO. Press SET when finished.

If you select YES, set the second set of times in the same manner you did the first set. If you select NO, you will be returned to the main screen.

Programming is complete!