

Timer #1 runs at:
TIME DAWN DUSK NEVER

Select TIME to activate Timer each day. Select DAWN to activate timer based on the Sunrise, or DUSK to activate this timer based on the Sunset. Select NEVER for no activation.

Hour: 05
- +

Use the – and + buttons to select the Timer activation Hour (24 hour military time). Press NEXT/SET when

Minute: 45
- +

Use the – and + buttons to select the Timer activation Minute. Press NEXT/SET when finished.

#1 Dawn Offset: +10
- +

Use the – and + buttons to select the Times Dawn Offset (number of minutes before or after sunrise). The Offset can be up to – or + 128 minutes. Press NEXT/SET when finished.

#1 Dusk Offset: -10
- +

Use the – and + buttons to select the Times Dusk Offset (number of minutes before or after sunset). The Offset can be up to – or + 128 minutes. Press NEXT/SET when finished.

Timer1, Dev 01: NoCh
- + NoCh

Use the – and + buttons to set Device #1 to either On, Off, an On Intensity (if dimmable), or No Change. Button 3 will select “No Change” directly. No Change means that the light will not be

affected by the timer event. If it is on, it will stay on, and vice versa. Simply step through each device and set its desired state when the timer event completes.

Repeat the above steps for all 8 timers.

View Settings?
YES NO

Select YES to view all settings made during previous steps. Use NEXT/SET to scroll through settings.

Reset Factory Defaults

To reset the Desktop Control Clock to factory defaults, unplug the unit then press and hold buttons 3, 4 and Next/Set simultaneously. While holding buttons 3, 4 and Next/Set, plug the unit back in. Continue to hold the buttons for about 6 seconds. Release the buttons and reset is complete.

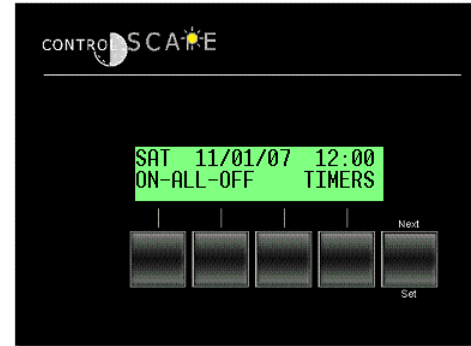
Diagnostics Mode

It is helpful to know that when a button is pressed, the clock looks at the current state of the light load and performs the opposite function. If the light is “ON”, turn it “OFF”. If you press the button to turn “ON” a load, the clock waits for confirmation from the device, before inverting the status. So, if the light went on, and the status did not invert, the clock did not receive a confirmation from the device. Therefore, pressing the button again will send another “ON” command, and the light, of course, will **not** go “OFF”. This would indicate a signal problem between the Device and the Time Clock or noise presence. UPB is designed to operate well on very low signal. However, if there is weak signal and strong noise, the noise can be drowning out the signal. Weak signal may be due to a lack of Phase Communication. We recommend using a Phase Coupler to be sure signal is being sent on both phases of the electrical service.

To place the Desktop Control Clock in “Diagnostics Mode”, press and hold the Next/Set button and plug the unit in. Continue to hold the Next/Set button for about 6 seconds. The clock will enter “Diagnostics Mode”. In this mode, the clock will send a signal to the selected device and the device will report back the signal level it received and the level of any noise. In the next step, the clock reports back the same information about the return message from the device. Signal, is a report of signal level from the last message the clock received. Therefore, if it receives a message back from Device 1, but Device 2 does not respond, the clock will report the signal from the last message it received, which in this case, was the message from Device 1.

Thank you for purchasing the ControlScape Desktop Time Clock. Please follow the simple instructions below to complete your installation. Enjoy!

Basic Operation



Once the ControlScape Desktop Time Clock has been set-up it will automatically control the landscape lighting according to the timers (actual time or sunrise/sunset) enabled during initial installation. However, the Desktop Time Clock still acts as a manual switching device for the landscape lights that are on the system. Simply press the All On or All Off buttons on the first page to turn all lights on or off. For individual light control, press the NEXT/SET button. Lights 1-4 will appear. Press the corresponding button to toggle the first four landscape lighting loads on and off.

To gain control of the next group of light loads, press the NEXT/SET button again. The NEXT/SET button will take you through all controlled light loads and return to the All On/All Off page.

On the main page (shown above), button 4 is “TIMERS”. This button will engage and disengage the timers. When the timers are in the “OFF” state, a “Timers Are Off” message will flash on the screen. This may be useful when you going on vacation or if you just do not want the lights to come on automatically.

Overview

The ControlScape Desktop Timer can control up to 16 “devices” or “receivers”. There are several receiver devices available depending on the need. In your job, each transformer will require a separate “device” or “receiver”. This is usually a “plug in relay module”. If you are also controlling high voltage loads, such as porch lights or floods, each of those light loads will require a receiving device. This is usually a dimmer or switch.

Each “device” will have its own address and the job will have a “Network ID” or NID. The “Network ID” is necessary, as UPB is quite powerful and if your neighbor is on the same system with the same “Network ID”, you could be turning their lights on and off.

So through this setup, each device will get a separate address, but they must all have the same Network ID. The clock will only talk to that network. For example, transformer #1 may be NID 1, Device 1. Transformer #2 will be NID 1, Device 2. Transformer #3 will be NID 1, Device 3. The flood lights will be NID 1, Device 4, and so on.

During timer operation, the clock might be programmed to turn on transformer #1 and 2 at dusk. It will send an “ON” command to NID 1, Device 1 and NID 1 Device 2. In manual operation, pressing the button for Device 8, will send an ON or OFF command to NID 1, Device 8. If the light is off the ON command is sent. If it is on, the OFF command is sent.

Let’s program the clock

Programming

To enter "Programming Mode", press the NEXT/SET button for up to 3 seconds until you see "Set Time/Date".

Set Time/Date?
YES NO Select YES to set Time and Date. Select NO or press the NEXT/SET button to skip to Location Settings.

Set Hour: 15
- +
YES Use the - and + buttons to select the current HOUR. Hours are Military, not AM/PM. Press NEXT/SET when finished.

Set Minute: 38
- + Use the - and + buttons to select the current MINUTE. Press NEXT/SET when finished

Set Day: Sat
- + Use the - and + buttons to select the current DAY. Press NEXT/SET when finished

Set Month: 11
- + Use the - and + buttons to select the current MONTH. Press NEXT/SET when finished

Set Date: 01
- + Use the - and + buttons to select the current DATE. Press NEXT/SET when finished

Set Year: 07
- + Use the - and + buttons to select the current YEAR. Press NEXT/SET when finished

Set TimeZone: Central
- + Use the - and + buttons to select the Time Zone. Press NEXT/SET when finished.

Observe DST?
YES NO Press YES or NO to indicate if the Time Clock should observe Daylight Savings Time.

Set lon/lat?
YES NO Press YES to set Latitude/Longitude of this location. This will be used to calculate Sunrise/Sunset. To skip to UPB settings press the SET/NEXT button.

Set lon/lat by ZIP?
YES NO Press YES to set Latitude/Longitude by Zip Code (recommended). Press NO to set manually.

Enter Zip: 00000
YES - + <- -> Enter the Zip Code at the location of the clock. Use the - and + to change digits and the right/left arrows to change position. Press SET/NEXT when finished.

Longitude: 87
NO - + Use the - and + buttons to set the Longitude. Press SET/NEXT when finished.

Latitude: 36
- + Use the - and + buttons to set the Latitude. Press SET/NEXT when finished.

Setup UPB?
YES NO Press YES to begin addressing UPB devices (modules, switches, etc.). Press NO or SET/NEXT to go to Timers.

Scan for open net?
YES NO Press YES to scan for an open UPB Network. This assures that the Timer will not interfere with other UPB systems in the area. Select NO to set the network ID manually. Do not scan on an existing setup, as it will find the devices that are already installed and try to use a different Network ID.

Scanning...
YES 1 The Time Clock automatically finds an unused UPB Network.

Manually set net?
NO YES NO Press YES to set the UPB Network manually. Use the - and + buttons, which appear, to select the Network. Select NO to skip.

Use UPB Repeater?
YES NO If a "UPB Signal Repeater" is installed, select YES., and follow instruction. (This is not the same as a phase coupler).

Number of Devices: 01
- + Use the - and + to set the number of UPB Devices that are installed. Then press NEXT/SET.

Program Device #1?
YES NO Press YES to program Device #1. Press NO or NEXT/SET to move To Device #2.

Place #1 in Setup
CANCEL Place Device #1 into Setup Mode. See device instructions to determine how to place each Device into Setup Mode (typically, press the top of the switch or recessed button on modules 5 times quickly). Programming happens automatically.

Does Device #01 Dim?
YES NO Select YES to set the intensities of the dimmable UPB devices when the Desktop Time Clock turns them on manually.

#01 Intensity: 100
YES - + Use the - and + buttons to select the On intensity percentage (%). Press NEXT/SET when finished. Note that with non-dimmable devices any value over 0% will turn device ON.

Complete above step for all UPB devices (up to a total of 16).

Setup Timers?
YES NO Select YES to set up the 8 internal clock timers. Select NO or press the NEXT/SET to skip.

Setup Timer #1?
YES NO Select YES to setup Timer #1. Select NO to skip Timer #1 and move on to the next Timer.

Run Timer1 Everyday?
YES NO Select YES to run this timer everyday. If you wish to apply specific "days of the week" press NO.

Days: SUN SMTWTFS
NO - + ADD DEL Use the - and + buttons to change the "Day". If the timer event should activate on that day, press "ADD" otherwise, press "DEL" (delete). The SMTWTFS in the upper right are the days this timer will activate. Press NEXT/SET when finished.