

**FEATURES**

- Real-time Clock with Weekday, Hour, Minute and Second display in selectable 12- or 24-Hour display format.
- 14 On/Off Program Pairs with Weekday, Hour, and Minute setting which can operate individually either on a specific day, Monday to Friday, Monday to Saturday, during Weekend or everyday.
- Countdown Timer with Hour and Minute setting.
- Random Controller
- Manual On/Off
- Master/Individual disable from pre-set program(s)
- Auto return/ Quick Jump function to Clock Display Mode.

**BATTERY INSTALLATION**

Before operating, two 1.5V button cell batteries should be installed into the Controller. This can be done by unscrewing and removing the battery cover at the back of the Controller and placing the batteries into the compartment. Make sure that the batteries are in their correct polarities otherwise it may result in damages to the Controller. Place and screw the battery cover back into the Controller after battery installation.

**Note:** The batteries serve to back up the readings and programs. The battery life time is around 1 year when the Controller is not connected to a power outlet. If you plan to leave the Controller unplugged for a long period of time (more than a week), the batteries should be removed in order to conserve battery consumption. When you need to replace new batteries back into the Controller, unplug the Controller from the outlet first before installing batteries.

**OPERATION**

The various modes of the Controller are arranged in circular pattern as shown below:

CLOCK-> PROGRAM 1 ON -> PROGRAM 1 OFF -> PROGRAM 2 ON -> PROGRAM 2 OFF ->... PROGRAM 14 ON -> PROGRAM 14 OFF -> CD PROGRAM -> CLOCK...

The PROG symbol will light up to denote Program Mode is being displayed. The CD PROG symbol will light up to denote that the Countdown Program Mode is being displayed. Press either the DOWN or UP (< or >) key to scroll through the programs and/or change from one function to the other. If the DOWN or UP (< or >) key is pressed for more than 1 second, they key will repeat itself. Pressing the key for a further 2 seconds and the rate of repetition will be increased.

To return to the Clock Display mode instantaneously from other modes, simply press both the DOWN and UP (< and >) keys together to activate the Quick Jump to Clock Display Mode function.

**SETTING THE CLOCK**

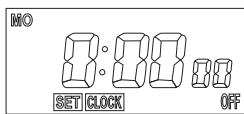


Figure 1

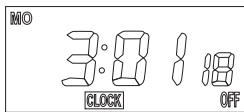


Figure 2

1. To enter the Clock Setting Mode, press the SET key in the Clock mode. The word SET will appear on the display and the field of *Weekday* will be flashing as in Figure 1.
2. Use the DOWN or UP (< or >) key to select the correct entry.
3. To confirm the entry and/or move to the next field, press the SET key. The field of *Hour* will be flashing.
4. Repeat Step (2) and (3) until all the data have been set.
5. For the value of *Second*, press either the DOWN or UP (< or >) key to reset its value to zero.
6. When all data have been set, SET will disappear and the Controller will return to the Clock Display Mode as in Figure 2.
7. To change from 12- to 24-hour display or vice versa, press the RND key in the Clock Setting Mode.

**SETTING THE PROGRAM**

With this Controller you can set up to 14 On/Off Programs. To set each program, please see the example shown below:

**Example of setting program 1:**  
MO 8:15 ON / MO 15:45 OFF

In this example, the Controller will be turned on at Monday 8:15 and off at 15:45.

1. Press either the DOWN or UP (< or >) key to enter the Program 1 On Mode, which is indicated by the appearance of PROG .1 ON on the display. In Figure 3, Program 1 On Mode with no setting is shown.

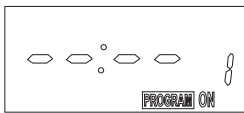


Figure 3

2. Press the SET key once to enter the Program Setting Mode. The word SET will appear on the display and the field of *Weekday* will be flashing.
3. Use the DOWN or UP (< or >) key to select a day for which Program 1 is to be turned on and off. The day displayed will sequence through MO-SU, each day, MO-FR, MO-SA, and SA SU, and then repeat again. In this example, the day would be Monday. Press the SET key when MO appears on the display.
4. The field of *Hour* should be flashing. Adjust this field to 8 using the DOWN or UP (< or >) key, then press the SET key.
5. The field of *Minute* should be flashing. Adjust this field to 15 using the DOWN or UP (< or >) key.
6. Press the SET key to end the setting of Program 1. The display will be shown as in Figure 4.

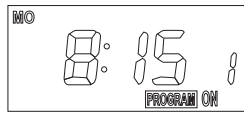


Figure 4

7. To set Program 1 off at 15:45, use the DOWN or UP (< or >) until PROG 1 OFF appears at the display. Follow the above steps as setting Program 1 On.
8. To continue setting more programs, press the UP (>) key until PROG 2 ON appears. Repeat the above procedures to set all programs.
9. If no more programs is needed to be set, simply press no key for 1 minute or press both the DOWN and UP (< and >) keys together and the Controller will return to Clock Display Mode automatically.

**SETTING THE COUNTDOWN TIMER**

The countdown timer function can be used to turn the timer on or off for a period from 1 second up to 23 hours 59 minutes 59 seconds. To set the Countdown Timer follow the example shown below.

**Example:** Setting the Countdown Timer to stay on for 1 hour 10 minutes 00 seconds.

1. Display CD PROG by using the DOWN or UP (< and >) key.
2. Press The SET key. The word SET will light up and the word ON will be flashing
3. Select ON using the DOWN or UP (< or >) key. Press the SET key.
4. The field of *Hour* should be flashing. Adjust the hour to 1 using the DOWN or UP (< or >) key Press the SET key.
5. The field of *Minute* should be flashing. Adjust the minute to 10 using the DOWN or UP (< or >) key. Press the SET key.
6. The field of *Second* should be flashing. Adjust the second to 00 using the DOWN or UP (< or >) key.

7. Press the SET key to complete the setting of the Countdown Timer. The display will be shown as in Figure 5.

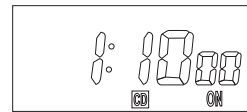


Figure 5

8. To activate the Countdown Timer, press the CD key. To stop the countdown, press the CD key again amid the display will return to its pre-set countdown value.
9. When the Countdown function is operating, the word CD will be flashing on the display even when the Controller is in other display mode.

Please note that countdown will not start when Random function is activated. All pre-set programs are also disabled during the countdown period. Activating the Manual on/off function will cancel the countdown operation.

**ACTIVATING THE RANDOM FUNCTIONS**

This timer had a built-in random function to automatically turn the timer on and off at random intervals. The timer will stay on for approximately 10 to 26 minutes and off 26 to 42 minutes. By pressing the RANDOM key, the symbol RND will flash indicating that it is active. When the random function is active all your preset programs including the Countdown Program are disabled and remain disabled until the random generator is turned off by pressing the RANDOM key again.

**MANUAL ON/OFF**

Without changing the program(s), this Controller can be turned on or off anytime by using the ON/OFF key.

Press the ON/OFF key to turn the Controller on. Press the ON/OFF key again to turn the Controller off. The flashing word ON or OFF will indicate that Manual On/Off function is activated.

**ACTIVATING THE DISABLE / MASTER DISABLE FUNCTION**

This function allows you to disable and enable any or all of the pre-set ON/OFF programs and CD Program using the ON/OFF key.

To disable a particular program, display such program or CD Program you wish to disable using the DOWN or UP (< or >) key, then press the SET key. The display will be flashing and the word SET will light up. Press the ON/OFF key to disable the program and the X symbol will appear to indicate that particular program is disabled.

**Note:** The display is still flashing and if there is no changes made on the pre-set program time, press the SET key until the display is not flashing. Use this function to disable as many available preset programs as you choose.

To disable all programs press the SET key while in Clock Display Mode. Then press the ON/OFF key when the display is flashing to disable all the pre-set programs. The X symbol appears on the Clock Display Mode indicates that all pre-set programs are disabled. -

To cancel this Disable function, just repeat the same procedures to turn off the X symbol.

**AUTO-RETURN/  
QUICK JUMP FUNCTION TO CLOCK DISPLAY**

If the Controller is left idling for more than 1 minute during programming or displaying other modes, the display will automatically return to Clock Display Mode and programming operation will be cancelled. However, if the display is showing Countdown Timer in progress, auto-return will not activate until countdown has been finished.

You can also activate the Quick-Jump function by pressing both the DOWN and UP (< and >) keys together and the display will return to Clock Display Mode immediately.

**LCD INDICATOR**

The LED indicator shows the status of the Controller. If the LED lights up, it indicates that the Controller is on and if the LED does not, the Controller is off. Note that the Controller status can also be seen in the Clock Display mode by the word ON and OFF. Please note that the LED will only light up when the Controller is plugged into an electrical outlet.

**RESET FUNCTION**

To reset all data entries, use a round object such as a ball point pen to push the RESET key. After reset, all pre-set programs as well as the Clock Display Mode will be cleared.

**ABNORMAL DISPLAY**

When an abnormal display or a blank display appears, use the above Reset procedures to reset the timer, otherwise the Controller may not be working properly. Make sure the button cell batteries are in good condition.

**TECHNICAL SPECIFICATIONS**

Program: 14 programs per day or  
per week  
Minimum switching time: 1 minute  
Ratings: 15A 1.20VAC  
Maximum resistive load: 1,800W

**TRACEABLE®  
OUTLET  
CONTROLLER  
INSTRUCTIONS**

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