

# TRACEABLE<sup>®</sup> COUNTDOWN CONTROLLER INSTRUCTIONS

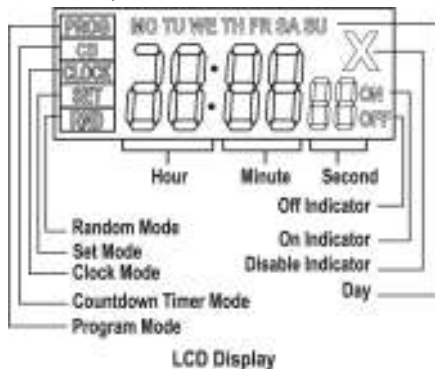
## SPECIFICATIONS

14 programs per day or per week.

Minimum switching time: 1 minute

Ratings: ISA — 120VAC

Maximum resistive load: 1,800 Watts



## SETTING THE CLOCK

In the clock mode, the timer displays as shown in Figure 1. Note that the colon is flashing and the word CLOCK appears on the LCD. To set the current time and day, press the SET key, the DAY is flashing and the LCD appears as shown in Figure 2. Use the left/right arrow keys ( < > ) to select the current day, then press the SET key. The HOUR is flashing, use the left/right arrow keys to select the current hour, then press the SET key. Now the MINUTE is flashing, use the left/right arrow keys to select the current minute, then press the SET key. The SECOND will flash. Press the right arrow key ( > ) to set the time to the start of next minute, while press the (left arrow key ( < ) to set the time to the start of current minute.

For example, when the time displayed is 3:16:22 and the second is flashing. Press the right arrow key will set the time to 3:17:00. Press the left arrow key to set the time to 3:16:00

To change from 12 to 24-Hour Display or vice versa, press the RND key in the Clock setting mode.

During the setting procedure, If the left or right arrow key is depressed for longer than 1 second, the key will repeat itself. Depressing the key for a further 2 seconds will increase the rate of repeat.

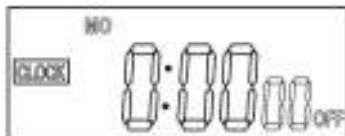


Figure 1

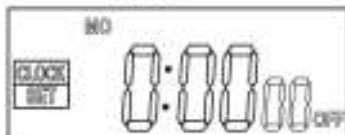


Figure 2

After the correct time is entered, press the SET key to end the clock setting. The word SET will be turned off and flashing will stop. The display now shows the current time and day as in Figure 3.

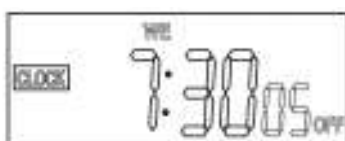


Figure 3

## REVIEW AND SETTING PROGRAMS

The unit can be set for daily or weekly event. You can choose the program to activate on a particular day, Monday to Friday, Monday to Saturday, Saturday to Sunday, or

everyday. You can set a maximum of 14 programs. To review the various programs, push either the left/right program arrow key. When the right arrow key is pressed, the LCD display will scroll through all the programs in the following sequence.

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

Press the left arrow key will have the same effect except the sequence is reversed. Push both keys at the same time will return to clock display.

The PROG symbol will display to denote the program is being displayed. CD PROG will display to denote the Count Down Program is displayed. A sample of the program is shown in Figure 4. Please note the display will show --:-- when the program is not set.

All programs can be reviewed by simply holding down the left or right arrow keys: the display will scroll through all the programs in sequence. Press the key one at a time to view programs one by one.

## EXAMPLE OF SETTING PROGRAM 1:

MO 8:15 ON / MO 15:45 OFF

In the above example, the timer will turn on at Monday 8:15 and off at 15:45. To set the timer on at 8:15, press the right arrow key or left arrow key until PROG 1 ON appears on the display, then press the SET key and the word SET will display.

With the Day flashing, use the left or right arrow key to select a day for which the program 1 to be turned on and off. The day display will sequence through each day and then MO – FR, MO – SA, SA – SU, MO – SU and then repeat again.

In this example, the day would be Monday. Press the SET key. When the hour is flashing, adjust the HOUR to 8 using the left or right arrow key, then press the SET key. When the Minute is flashing, adjust the MINUTE to 15 using the left right arrow keys, then press the SET key to end the setting program. In Figure 4 the display shows the timer before it's being set and in Figure 5 the display shows the timer after it's been set.

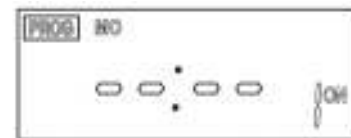


Figure 4

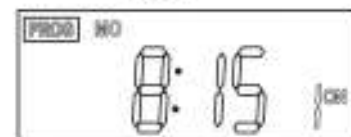


Figure 5

To set the timer off at 15:45, follow the same steps as setting the ON program.

Note; the HOUR and MINUTE can be set for the program time but not the SECOND.

## RANDOM FUNCTION

This timer has a built-in random function to automatically turn the time 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 the preset programs including the Count Down Programs are disabled and remain disabled until the random generator is turned off by pressing the RANDOM key again. Manual Override is also disabled.

## MANUAL ON/OFF

This timer can be turned on or off anytime (except when Random/function is active) by using the ON/OFF key. Press the ON/OFF key to turn the time on. Press the ON/OFF key again to turn the timer off. The LED indicates the timer is on or off. The flashing word ON or OFF indicates that manual on/off mode is active.

The manual override mode will be cancelled when a preset program or countdown program is activated. The ON/OFF word on the clock display will then stop flashing.

### COUNT DOWN TIMER (PROGRAM)

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 time, follow the example shown below. Example: Setting the countdown time to stay on for 1 hour 10 minutes 30 seconds.

- Display the CD PROG using the left or right arrow keys. (While clock is displayed, push the left arrow key once will display CD PROG.)
- Press the SET key. The word SET will display and either ON or OFF will flash.
- Select ON using the left/right arrow key.
- Press the SET key. Adjust the hour to 1 when the HOUR is flashing using the left/right arrow keys.
- Press the SET key. Adjust the minute to 10 when the MINUTE is flashing using the left/right arrow keys.
- Press the SET key. Adjust the second to 30 when the SECOND is flashing using the left/right arrow keys.
- Press the SET key to complete the setting of countdown time.

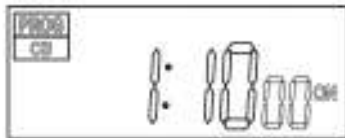


Figure 6

The Countdown Timer is now set to turn on or off for 1 hour 10 minutes 30 seconds as shown in Figure 6. Press the CD key anytime to activate the count down. The display will show the time counting down when the CD PROG symbol is displayed, until it reaches zero. When time is up, the time will turn itself off.

The count down will not start when the random function is active. Regular program is disabled during the count down period. Activating Random function or Manual On/Off will cancel the count down operation.

### DISABLE / MASTER DISABLE FUNCTION

This function allows you to disable and enable any or all of the 14 preset ON/OFF programs and CD Program using the ON/OFF key.

To disable a program, display the program or CD Program you wish to disable using the left/right arrow key, then press the SET key. The display is flashing and the word SET is displayed, press the ON/OFF key to disable the program, the X symbol will appear to indicate that that particular program is disabled as shown in Figure 7.

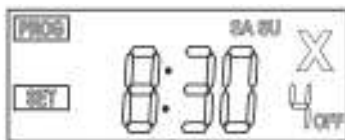


Figure 7

**Note:** The display is still flashing and if there's no changes to be made on the preset program, 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. Then press the ON/OFF key to disable all the preset programs when the display is flashing. The X symbol will appear on the clock display indicating that all preset programs are disabled.

Please note that CD Program will not be affected by the master disable.

To cancel the disable function, just repeat the same procedure to turn off the X symbol.

### AUTO-RETURN TO CLOCK DISPLAY

If the unit is left idling more than 1 minute during programming or displaying another mode, the display will return to clock and the programming operation is cancelled. However, if the display is showing count down time in progress, auto-return will not activate until count down is finished.

### LED INDICATOR

The LED indicator shows the status of the timer. If the LED is lit, the timer is on and if the LED is not lit, the timer is off. Note that the timer's status can also be seen in the CLOCK mode, by the word ON or OFF. The LED will only light when the timer is plugged into an electrical outlet.

### RESET

The RESET key is located on the top-right hand corner of the function board. Use a round object such as a ball-point pen to push the reset key while the SET key is pressed. Then release the RESET key first before the SET key. After reset, all preset programs are erased from timer's memories.

### ABNORMAL DISPLAY

When an abnormal display or a blank display appears on the timer, use the above Reset procedure, otherwise the timer may not work properly. Be sure that the rechargeable battery is adequately charged.

### WARRANTY, SERVICE, OR RECALIBRATION

For warranty, service, or recalibration, contact:

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Control Company is ISO 9001 Quality-Certified by DNV and ISO 17025 accredited as a Calibration Laboratory by A2LA.