http://waterheatertimer.org/Intermatic-ET-series-timers-and-manuals.htm|\#ET170

| OPERATION MANUAL Programmable Microcomputer TIMER MODEL NO. ET160 |  | Thank you for buying this Programmable Micro Computer Timer! By setting programs and random functions, you can turn on and off any plugged-in electrical applicances at your <br> Operation of this Timer is simple. To obtain the fullest utilization, please read and follow the instructions carefully. <br> Features <br> - Real-time Clock with Weekday, Hour, Minute and Second display in selectable 12 or 24 hour display format <br> display in selectable 12 or 24 hour display format - 20 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 Summerammable Random Timer Manual On/Off $\qquad$ | Battery Installation <br> Before operating, the two button cell batteries (included) should be installed into the unplug the Timer, unscrew the 2 small screws at the back and compartment while observing the correct polarity. Replace the cover and screws after battery installation programs while it is unplugged. The battery life is around 1 year when the Timer is not | unplugged for a long period of time, you may want to <br> Function Abnorm the Time <br> Reset Function / Abnormal Display <br> When an abnormal or blank display appears, or if you want to clear all programs, use a round object such as a ball-point to push the RESET key. After reset, clock and all programs will be cleared. If the display is dim or abnormal, you should replace the button cell batteries. Operation $\qquad$ $\mathrm{Clock} \rightarrow \mathrm{Pgm} .1$ n $\rightarrow \mathrm{Pgm} 1 \mathrm{Off} \rightarrow \mathrm{Pgm} 2 \mathrm{On} \rightarrow$ Clock $\rightarrow$ Pgm. 1 On $\rightarrow$ Pgm. 1 Off $\rightarrow$ Pgm. 2 On Pgm. 2 Off $\rightarrow \ldots$ Pgm. 20 On $\rightarrow$ Pgm. 20 Off $\rightarrow$ Countdown $\rightarrow$ Clock... The PROG symbol will light up to denote Program is being displayed. The CD PROG symbol will light up to denote that the Countdown Program is being displayed. Press either the $\leftarrow$ or $\rightarrow$ key to scroll through clock and programs.lf the key is pressed for more than 1 second,the programs.If the key is key will repeat itself. $\square$ | To return to the Clock display from other modes, simply press both $\leftarrow$ and $\rightarrow$ keys together. <br> Setting the Clock <br> - To set the clock, press the SET key while clock is displayed. SET will appear on the display and displayed. SET $\square$ $\qquad$ <br> Press $\longleftarrow$ or $\rightarrow($ DOWN or UP) key to select day. Holding the key and it will repeat by itself. <br> - Press SET key and Hour will be flashing. <br> - For the setting of Second, either $\leftarrow$ or $\rightarrow$ key will set <br> the second to ' 00 '. - After all data have been set, SET will disappear and the Timer will return to the normal clock display. <br> imer will return to the normal clock display <br> To change between 12 and 24 hour display, press the <br> Setting the Program <br> With this Timer you can set up to $20 \mathrm{On} /$ Off Programs. To set each program, please see the example shown below: |
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| Example of setting program 1 <br> In this example, the Timer will be turned on at Monday $8: 15$ <br> and off at 15.45. <br> - Press SET key and SET will appear on the display and <br> Weekday will be flashing. - Press $\longleftarrow$ or $\rightarrow$ key to select the day(s) for Program 1 to <br> be active. The day displayed will sequence through MO-SU (everyday), MO to SU, then MO - FR, MO - SA <br> and SA - SU, and repeat again. In this example, the day would be Monday. Press the SET key when MO appears <br> on the display. Hour should be flashing. Use $\leftarrow$ or $\rightarrow$ key to change <br> the hour to 8 , then press the SET key. - Minute should be flashing. Change it to 15 . <br> - Press SET key to finish the setting of Program 1-On. - Press $\rightarrow$ key and PROG 1 OFF appears at the display. Use the same method to set the off time. | To set more programs, press the $\rightarrow$ key and PROG 2 ON <br> If no key is pressed for 1 minute, the Timer will return to <br> Setting the Countdown Timer <br> The countdown timer can be used to turnt the timer on or off for a aeriod from 1 second up to 23 hours 59 minutes 59 <br> seconds. Example: Set the Countdown Timer to stay On for 1 <br> - Display CD PROG by using $\leftarrow$ or $\rightarrow$ key. <br> be flashing $\qquad$ <br> Minute should be flashing. Set minute to 10 and second to 0 using the same method. <br> To activate the Countdown Timer, press the CD key. To stop return to its pre-set countdown value. $\square$ fr Mexem | When the Countdown function is operated in clock mode timer program mode, CD willbe flashingon thedisplay. <br> Note: Countdown will not start when Random function is <br> activated. All pre-set programs are also disabled during the countdown period. Activating the Manua <br> during the countdown period. Activating the Manual on/off function will cancel the countdown operation <br> Activating the Random Functions <br> This timer has a built-in random function to automatically turn the timer on and off at random intervals. This feature is <br> especially useful for security purpose whenever a home is left unattended. <br> 3 different Random functions are available: <br> (1) Short random Timer (2) Long Random Timer (3) Progran <br> To activate Short Random, press the RND key when Clock <br> or Program 1-19 is displayed. RND will flash. To cancel Random function, press RND key again. Short random <br> cycle is about $1 \sim 2$ hour. <br> To activate Long Random, press the RND key when Countdown Timer is displayed. L-RND will be flashing. Long random cycle is about $2 \sim 4$ hour. |  | Press the 2 keys again in Clock display will return to norma time. <br> Manual On/ Off <br> The Timer can be turned on or off anytime by using the <br> or OFF will indicate that Manual On/Off function is activated. <br> Activating the Disable / Master Disable Function <br> This function allows you to disable any or all of the pre-set ON/OFF programs. To disable a particular program, display ON/OFF programs. To disable a particular program, display the program you wish to disable, 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. <br> Note: The display is still flashing and if there is no changes SET key until the display is not flashing. Use this function to disable as many available pre-set function to disable as many | To disable all 20 programs, press the SET key while in appears on the Clock Display Mode indicates that all pre set programs are disabled. <br> To cancel this Disable function, just use the same method to turn off the $\mathbf{X}$ symbol. turn off the $\mathbf{X}$ symbol <br> Technical Specifications <br> Program: 20 programs per day or per week Minimum switching time: 1 minut Ratings: 120V AC 15A <br> load: $1,800 \mathrm{~W}$ resistive |
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