8-CHANNEL ALARM TIMER

There are many unique features of the 8-Channel Alarm Timer, please read the instructions completely, and please work all the examples.

The following short form instructions are handy to refer to after you have read the instructions completely.

Short Form Instructions

Clock, 12-hour or 24-hour

1. Countdown, 1-minute alarm auto-off/manual off, memory recall
2. Countdown, alarm manual off, memory recall
3. Countdown, alarm manual off, memory recall
4. Countdown/up, 1-minute alarm auto-off/manual off
5. Stopwatch, 1 minute alarm auto-off/manual off
6. Countdown repeat, 7-second alarm auto-off/manual off
7. Countdown repeat, 1-minute alarm auto-off/manual off

Change channels . . . . CHANNEL SELECTOR
Increase time set . . . . TIME SET ▲
Decrease time set . . . . TIME SET ✦
Start or stop timing . . . . START/STOP
Turn alarm off . . . . ALARM OFF
Clear display . . . . Both TIME SETs simultaneously
Memory recall . . . . START/STOP with alarm off
Minute/second mode . . . . CHANNEL SELECTOR & START/STOP
                                                          simultaneously
24-hour clock . . . . START/STOP, TIME SET ▲, &
                                                          CHANNEL SELECTOR simultaneously
(00.00) one decimal . . . . display in hour/minute mode
(.00.00) . . . . display in minute/second mode

Operation of Buttons, Digital Display, Lights

Blinking decimal . . . . time is running
Solid decimal . . . . time is not running
Blinking channel light . . . . channel being displayed
Solid channel light . . . . channel timing but not displayed
Fast blinking channel light . . . . channel alarming
Alarm signals . . . . 1 repeating beep for channel 1,
                                                            2 repeating beeps for channel 2, etc.
Multiple channels alarming . . . . highest channel sounds
Volume adjust . . . . bottom adjust screw
Preprogramming . . . . set time but do not start
Power outage . . . . display blinks 12.00

CHANNEL SELECTOR

Each press of this button advances the display to the next channel. To view time in any channel press the CHANNEL SELECTOR button.

START/STOP

Each press of this button starts the unit timing or stops timing.

ALARM OFF

Each press of this button turns off the alarm regardless of which channel is being displayed.

TIME SET ▲ ✦

Each press of the TIME SET button either increases or decreases the time on the digital display. By pressing the key once and releasing it, the numbers will change one at a time. By holding the button down for several seconds, the numbers will change rapidly. Keep in mind that it is faster to set high numbers by approaching them with the TIME SET ✦ button. Simultaneously pressing TIME SET buttons clears the display.

MINUTE/SECOND MODE

With the display set to zero, press the START/STOP and CHANNEL SELECTOR buttons simultaneously to change the display from hour/minute to minute/second mode.

The hour/minute mode is indicated with one decimal displayed (00.00). The minute/second mode is indicated with two decimals being displayed (.00.00). Press the START/STOP and CHANNEL SELECTOR buttons simultaneously to change back and forth between modes. The display must be set to zero to change modes. With no time in the display, changing channels automatically sets the display to the hour/minute mode.

DIGITAL DISPLAY (DECIMALS)

Blinking decimals on the digital display indicate that time is running in the channel being displayed. Solid decimals indicate that time is not running.

CHANNEL LIGHTS

A slow blinking channel light indicates the channel is being displayed. A solid channel light indicates a channel is timing but is not being displayed. A fast blinking channel light indicates the channel is alarming (an electronic tone will also be sounding).

Operation of Channels

CLOCK

Plug the 8-Channel Alarm Timer in a 115 volt AC, 60 Hz. outlet. The digital display will flash (12.00). Use the TIME SET▲▼buttons to set the correct time. By pressing a TIME SET button once and releasing it the numbers will change one at a time. By holding the button down for several seconds, the display will change rapidly. When the correct time is set, press the START/STOP button to start the clock running. To clear the display to reset the time, press both TIME SET▲▼buttons simultaneously.

If you wish to use 24-hour military time, first reset the display by pressing both TIME SET▲▼buttons simultaneously. Now, simultaneously press the following three buttons START/STOP, TIME SET▲, and CHANNEL SELECTOR. This will convert the display in the clock channel to 24-hour time. To return to 12-hour time, repeat this procedure.

CHANNEL 1

Countdown timing capacity is 100 hours to 1 second. Press a TIME SET button to set the time in minutes and hours. By pressing a TIME SET button once and releasing it, the numbers will change one at a time. By holding the button down for several seconds, the display will change rapidly. After the time is set, press the START/STOP button to begin timing down. The blinking decimal on the digital display indicates that time is running. If you do not choose to start timing right away, the time set will be retained until you either change the time or begin timing. This preprogramming will be retained even if you change channels.

Countdown times of more than one hour are displayed in hour and minute increments. Hour/minute timing is indicated by one lighted decimal on the display (00.00). Countdown times of less than one hour are displayed in minute and second increments. Minute/second timing is indicated by two lighted decimals on the display (.00.00).

When zero is reached on the display the alarm will sound one repeating beep for one minute and the channel 1 light will blink rapidly. To turn off the alarm, press the ALARM OFF button regardless of which channel is being displayed.

Memory: When timing repetitive intervals, the memory function will recall the last programmed time. After the alarm is off press the

START/STOP button. The display will automatically show the last set time. Press START/STOP to begin timing.

Stopping timer during countdown: If it is necessary to stop timing during countdown, press START/STOP. The decimal on the digital display will stop blinking. To resume timing, press START/STOP again.

Clear display: To clear the display or to change a time period after timing has started, press the two TIME SET buttons simultaneously.

Setting seconds: If you wish to set the countdown time in minute and second increments (up to 59 minutes, 59 seconds) rather than hour and minute increments, then simultaneously press START/STOP and CHANNEL SELECTOR. Two decimals will be lighted on the digital display, this indicates minute/second timing. To return the channel to hour and minute increments, press the same buttons again. To change modes the display must read all zeros (no time).

EXAMPLE CHANNEL 1

Countdown from two minutes in channel 1 and use memory.

1. Press the CHANNEL SELECTOR button until channel 1 light is blinking.
2. If the display shows 00.00 then continue to the next instruction. If time is shown on the display then press the two TIME SET buttons simultaneously to clear the display.
3. Press the TIME SET▲ button two times (.02.00).
4. Press START/STOP to begin the countdown.
5. When zero is reached and the unit is alarming, press ALARM OFF to stop the alarm. Alarm will automatically turn off in one minute in channel 1. (Alarm must be manually turned off in channels 2 and 3).
6. Press START/STOP to activate the memory to return the display to the last programmed time (.02.00).
7. Press START/STOP to begin countdown.

CHANNELS 2 AND 3

Channels 2 and 3 are identical to channel 1 except that channel 2's alarm sound is two repeating beeps and channel 3's is three repeating beeps. The alarms must be turned off manually, they do not automatically turn off in one minute.

EXAMPLE CHANNEL 2

Countdown from 2 minutes 57 seconds and use the memory.

1. Press the CHANNEL SELECTOR button until the channel 2 light is blinking.
2. If the display shows 00.00 then continue to the next instruction. If time is shown on the display then press the two TIME SET buttons simultaneously to clear the display.
3. Press the START/STOP and CHANNEL SELECTOR buttons simultaneously to change the time mode from hour/minute to minute/second. Display will show two decimals (.00.00).
4. Press the TIME SET▲ button and keep it depressed to rapidly approach (.02.57). Press the TIME SET▼ button if you overshoot the time.
5. Press START/STOP to begin countdown.
6. When zero is reached and the unit is alarming, press ALARM OFF to stop the alarm. Alarm will continue to sound until manually turned off in channels 2 and 3.
7. Press START/STOP to activate the memory to return the display to the last programmed time (.02.57).
8. Press START/STOP to begin countdown.

EXAMPLE CHANNEL 3

Place timer in channel 3 and set in 99 hours, 58 minutes. Use the TIME SET▲ button to approach high numbers quickly. Press the TIME SET▼ button twice to program (99.58).

CHANNEL 4

Channel 4 is identical to channel 1 except that instead of stopping when zero is reached, the timer counts through zero and begins timing up. This feature is valuable when it is important to know the amount of time which has elapsed since the alarm sounded. The alarm will sound for one minute or may be turned off manually. Pressing the ALARM OFF button to turn off the alarm does not stop timing up. Press START/STOP again to stop timing.

EXAMPLE CHANNEL 4

Place in channel 4, set in 1 minute, and countdown/up.

1. Press the CHANNEL SELECTOR button until channel 4 light is blinking.
2. If the display shows 00.00 then continue to the next instruction. If time is shown on the display then press the two TIME SET buttons simultaneously to clear the display.
3. Press the TIME SET▲ button once (.01.00).
4. Press the START/STOP button to begin the countdown.
5. When zero is reached and the alarm is sounding, press ALARM OFF button. Alarm will automatically turn off in one minute in channel 4.
6. The timer will continue to count up until START/STOP Is pressed or until the two TIME SET buttons are pressed simultaneously to clear the display.

CHANNEL 5

Channel 5 is a stopwatch channel. The channel times in minutes and seconds up to one hour. For times over one hour, it times in hours and minutes to 100 hours. When 100 hours are reached, the display automatically rolls over to zero and continues timing.

To start the stopwatch simply press START/STOP. For time-out periods, press START/STOP to stop timing. Press START/STOP to resume timing.

To use the alarm in the stopwatch mode, set the alarm desired by using the TIME SET buttons, then press START/STOP. The unit will automatically set the start time to zero, begin timing up, and alarm when the preset time is reached. The alarm will sound for one minute or may be turned off manually. Pressing the ALARM OFF to turn off the alarm does not stop the timing. Press START/STOP to stop timing.

The stopwatch channel may also be set in the minute/second mode by pressing the START/STOP and CHANNEL buttons simultaneously. Although the stopwatch will always begin timing in seconds and minutes, this mode change allows the setting of the alarm in minutes and seconds.

EXAMPLE CHANNEL 5

1. Press the CHANNEL SELECTOR button until channel 5 light is blinking.
2. If the display shows 00.00 then continue to the next instruction. If time is shown on the display then press the two TIME SET buttons simultaneously to clear the display.
3. Press START/STOP to begin timing, press START/STOP for time-outs, press START/STOP to resume timing.

EXAMPLE CHANNEL 5 USING THE ALARM

Place in channel 5, set to alarm in 2 minutes.

1. Press the CHANNEL SELECTOR button until channel 5 light is blinking.
2. If the display shows 00.00 then continue to the next instruction. If time is shown on the display then press the two TIME SET buttons simultaneously to clear the display.
3. Press the TIME SET▲ button twice (.02.00).

4. Press the START/STOP button. Timer will automatically reset the display to zero and begin timing up.

5. At two minutes the alarm will sound, press ALARM OFF to stop the alarm. Alarm will automatically turn off in one minute.

6. To stop the timing press START/STOP.

CHANNEL 6

Channel 6 is a repeat timing channel. This is an excellent channel to use when repetitive signals at a constant time interval are required. It is identical to channel 1 except that when zero is reached, the original programmed time is automatically placed in the display and count-down autor.atically begins again. This sequence will continue until START/STOP is pressed to stop timing or the two TIME SET buttons are pressed simultaneously to clear the display. The alarm will sound for 7 seconds or it may be turned off manually. Pressing the ALARM OFF to turn off the alarm does not stop the repeat cycle.

EXAMPLE CHANNEL 6

Place in channel 6 and make the alarm sound every minute.

1. Press the CHANNEL SELECTOR button until channel 6 light is blinking.

2. If the display shows 00.00 then continue to the next instruction. If time is shown on the display then press the two TIME SET buttons simultaneously to clear the display.

3. Press the TIME SET▲ button one time (.01.00).

4. Press START/STOP to begin the countdown.

5. When zero is reached the alarm will sound for seven seconds or may be turned off with the ALARM OFF button. The timer will automatically return to 1 minute and begin counting down again. It will repeat this timing until the two TIME SET buttons are pressed simultaneously to clear the display. Timing may be stopped (time-outs) by pressing the START/STOP button when the alarm is not

sounding.

CHANNEL 7

Channel 7 is identical to channel 6 except that it alarms for one minute:

EXAMPLE CHANNEL 7

Place in channel 7 and make the alarm sound every 1 minute and 14 seconds.

1. Press the CHANNEL SELECTOR button until channel 7 light is blinking.

2. If the display shows 00.00 then continue to the next instruction. If time is shown on the display then press the two TIME SET buttons simultaneously to clear the display.

3. Press the START/STOP and CHANNEL SELECTOR buttons simultaneously to change the time mode from hour/minute to minute/second (display will show two decimals .00.00).

4. Press the TIME SET▲ button and keep it depressed to rapidly approach (.01.14). Press the TIME SET▼ button if you over shoot the time.

5. Press START/STOP to begin the countdown.

6. When zero is reached the alarm will sound for one minute or may be turned off with the ALARM OFF button. The timer will automatically return to 1 minute 14 seconds and begin counting down again. It will repeat this timing until the two TIME SET buttons are simultaneously pressed to clear the display. Timing may be stop-ped (time-outs) by pressing the START/STOP button when the alarm is not sounding.

Other Features

PREPROGRAMMING

Preprogrammed time may be placed in the channels without starting

the countdown sequence. Simply input the time desired in a channel. This will store the countdown time and permit changing channels without starting the countdown timing. To begin countdown timing, press START/STOP in each preprogrammed channel.

MULTIPLE CHANNELS ALARMING

If two or more channels are alarming at the same time, the unit will sound the highest numbered channel's alarm. As you turn off the highest numbered channel's alarm by pressing the ALARM OFF button, you will then hear the next highest channel's alarm. For example if channel 7 and 3 are both alarming, you will hear channel 7 until you press ALARM OFF, then you will hear channel 3.

ALARM VOLUME ADJUST

To adjust the alarm volume, turn the case over (four feet exposed), remove the two silver (or black) plugs, shine a flashlight into one hole to locate the small white adjust screw, insert a very small blade (0.1 inch tip) screwdriver into the other hole. Turn the white screw clockwise to increase volume, turn counter-clockwise to reduce volume.

Do not insert anything into the back hole (same side the power cord enters). This is the alarm speaker and it can be damaged.

If you are unable to adjust the alarm volume through the holes then remove the rubber feet, remove the case screws, remove the bottom case, and adjust the white screw directly.

POWER/POWER OUTAGE

It is normal for the power supply to be warm to the touch. If there is a power outage, the unit automatically displays a blinking (12.00) in the clock channel.

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OWNER'S MANUAL

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