

## The TimeKeeper™ Count Up/Down timer with Clock and Presets



### Buttons and Controls

Tap the desired button to cause the action to occur.

- **Reset** – Select timer mode, reset the count up timer zero, reset the count down timer to the preset value.
- **Mode** – Selects count up or count down while in timer mode. Selects 12 or 24 hour while in time of day clock display mode.
- **Select** – Selects between setting hours, minutes and seconds.
- **Start/Stop** – Runs or pauses the timer.
- **Clock** – Changes the display to show the time of day clock. Tapping this button while in the clock mode changes between 12/24 hour display.
- **Preset** – Recalls a stored setting.
- **Knob** – Turn the knob to change a value.

Press and hold the desired button to cause the action to occur.

- **Reset** – Select timer mode, reset the count up timer zero, reset the count down timer to the preset value. Stores the power up presets into memory if in the timer setup mode.
- **Mode** – Displays the Beeper mode setup.
- **Select** – Displays the Yellow warning setup time. Tapping select toggles between yellow warning and yellow blink times.

- **Start/Stop** – Enters the setup mode. *See manual for details.*
- **Clock** – Enters the time of day clock set mode.
- **Preset** – Stores the current timer settings into the stored setting memory.

### Count Down Timer Mode (hh:mm:ss)

- Tap the **Reset** button to select timer mode.
- Tap the **Mode** button, to select the count down mode, if not already in the count down mode.
- Turn the **Knob** to set desired time. The **Select** button selects between setting hours, minutes and seconds.
- Tap the **Start/Stop** button to start the timer.

### Count Up Timer Mode (hh:mm:ss)

- Tap the **Reset** button to select timer mode.
- Tap the **Mode** button, to select the count up mode, if not already in the count up mode.
- Turn the **Knob** to set desired time. The **Select** button selects between setting hours, minutes and seconds.
- Tap the **Start/Stop** button to start the timer.

The **Mode** button selects between count-up and count-down modes. You may change between count-up and count-down modes while the timer is running. In count-down mode, the timer stops when it reaches zero. In count-up mode, the timer keeps running when the preset time is reached.



### User Programmable Presets

- Setup the timer preset time to the desired time.
- Set the Green and Yellow Warning times the way you want them.
- Also, select the desired count up/down mode and beeper mode.
- If you want the preset to start the timer automatically, start the timer running.
- Press and hold the desired **Preset** button until the display blinks to save the timer preset time, Yellow Warning and Yellow Blink times, timer count up/down mode, beeper mode, special timer modes, timer run

status, tally counter preset value, and tally counter scale factor. When the display changes, the settings are stored.

- To activate the **Preset**, a single button press will set the timer to the exact conditions that were saved.

### Power Up Presets

- Set up the timer preset time to the desired time.
- Set the green and yellow warning times the way you want them.
- Also, select the desired count up/down mode and beeper mode.
- Press and hold the **Start/Stop** button to enter the timer setup mode.
- Press and hold the **Reset** button until the display blinks to save the timer preset time, green and yellow warning times, timer count up/down mode, beeper mode and special timer modes. When the display changes, the settings are stored.
- The next time the unit is powered up, these settings will be restored.

Deleting the user programmed power up presets.

- Set the hours, minutes and seconds to 00:00:00.
- Press and hold the **Start/Stop** button to enter the timer setup mode.
- Press and hold the **Reset** button until the display blinks. The next time the unit is powered up, the factory default settings will be loaded.



### Clock Mode

- Tap the **Clock** button to select clock mode.
- The **Clock** or **Select** buttons select displaying 12 hour time, military time or seconds. In 12 hour mode, the PM LED will be on for PM and off for AM.

*Press and hold the **Clock** button to enter set time mode.*

- Turn the **Knob** to set the hours.
- Tap the **Clock** button again.
- Turn the **Knob** to set the minutes.
- Tap the **Clock** button again to return to normal display, or other available settings, like seconds.

### Special Timer Modes

While in the count down mode, when the timer reaches zero, it stops. Two other special timer modes are available. Press and hold the **Start** button until the display changes. Turn the **Knob** to select the desired mode.

- Mode 0: **(default)** Stop when the timer reaches zero. In this mode, the timer stops when the elapsed time reaches zero.
- Mode 1: Red blink on timer zero. The red indicator blinks until the timer is reset.
- Mode 2: Auto-Restart mode. In this mode, the timer automatically restarts counting down from the preset value each time the timer reaches zero. The Auto-Restart mode works in both count up and count down modes. The count up mode uses the count down timer preset time to determine when to reset the count up timer back to zero and restart.
- Mode 3: Change to count up when the timer reaches zero. In this mode, the timer changes to the count up mode and starts counting up when the timer reaches zero.

### Beeper Modes

The Timekeeper™ has several beeper modes: Single beep; Beep at each of the warning times; Pulsing beep until reset; steady beep until reset, and beeper disabled. Press and hold the **Mode** button until the display changes. Turn the **Knob** to select the desired beeper mode.

- Mode 0: Beeper off.
- Mode 1: A single beep when the timer reaches zero.
- Mode 2: Continuous pulsing beep when the timer reaches zero. Pressing the **Reset** button stops the beep.
- Mode 3: Continuous steady beep when the timer reaches zero. Pressing the **Reset** button stops the beep.
- Mode 4: Beep when the timer is started.
- Mode 5: Beep when the timer is started and a single beep when the timer reaches zero.
- Mode 6: Beep when the timer is started and continuous pulsing beep when the timer reaches zero.
- Mode 7: Beep when the timer is started and continuous steady beep when the timer reaches zero.
- Mode 8: Beep at the warning times. You can add 8 to any of the other modes. Ie: Mode 9 is beep at the warning times and at zero.

*Note: See **Beeper and relay setup** options for additional beep options. (Revision 36)*



### Red-Yellow-Green Display

- The **Green** lamp comes on when the timer is started and turns off when either the blink time or the warning time is first reached.
- When the **Yellow** blink time is reached, the **Yellow** lamp blinks on and off every second. (The default **Yellow** blink time is at 2 min.)
- When the **Yellow** warning time is reached, a fast blink occurs approximately 8 times and then the **Yellow** lamp remains on. (The default **Yellow** steady on time is at 1 minute.)
- Note that the **Yellow** steady and **Yellow** blink sequence may occur in either order depending on the programmed setting. If they are set to the same time, the **Yellow** steady on takes precedence.
- When the timer reaches zero, the **Red** lamp comes on and the **Yellow** lamp goes off. In the default count down mode, the timer stops when the **Red** lamp turns on. In the count up mode, the timer keeps running after the lamp turns **Red**.
- Tap the **Reset** button on the TimeKeeper™ to turn off the **Red** lamp.

### Setting the Yellow Blink Time

- Press and hold the **Select** button until the screen reads "blnk" and then release the **Select** button. The current blink time setting will appear.
- Turn the **Knob** to the minute(s) setting desired.
- Tap the **Select** button once and turn the knob to add seconds. (Tapping the **Select** button now toggles between setting minutes and seconds.)
- Tap the **Reset** button to return to the count-down time.

### Setting the Yellow Warning Time

- Press and hold the **Select** button until the screen reads "blnk." Release the **Select** button and press and hold it again until the screen reads "-lArm." The current warning time setting will appear.
- Turn the **Knob** to the minute(s) setting desired.
- Tap the **Select** button once and turn the knob to add seconds.
- Tap the **Reset** button to return to the count-down time.

*NOTE: Different models present the warning times in different ways, but the basic behavior is the same, typically displaying different colors for the warnings.*

### Timer Variations

Not all timer models can perform all the functions described in this document. Most timer models have a knob rather than up/down buttons to set the time. Not all timer models have a beeper. Some minor variations exist between the units, such as one unit has a **Start** button and another may have a **Start/Stop** button.

- Count Down Timers have **Start** and **Reset** buttons.
- Count Down Timers with Clock have **Start**, **Reset** and **Clock** buttons.
- Count Up/Down Timers have **Start**, **Reset**, **Mode** and **Select** buttons.
- Count Up/Down Timers with Clock have **Start**, **Reset**, **Mode**, **Select**, and **Clock** buttons.
- Count Up/Down Timers with Presets have one or more **Preset** buttons.
- External remote buttons can control the timers. See the user manual for details.

### Connecting multiple Timekeeper™s together

When multiple units are connected together, only one unit may become the controlling unit. The rest of the units become remote displays.

- The Timekeeper™ defaults to remote display mode at power up.
- Be sure to connect the units up such that the controlling unit's transmit port is connected to the receive unit's receive port.
- Once a button is pressed, the controlling unit changes to clock/timer mode.
- The controlling unit remains in timer mode until the power is turned off or a command is received that returns it to remote display mode.
- When connecting more than 2 units together, data on the transmit port of a remote display is echoed from the receive port.