

## Changing the batteries in a Watch-DOG (models 5002-001 & 5001-001)

Rev. 1.1 (24-June-2014)

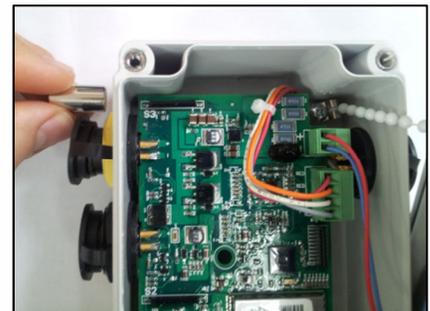
Please read all instructions to familiarize yourself with the procedure before you begin. Watch-DOG is powered by 6 long life “Energizer Ultimate Lithium” AA batteries. Periodically (about every 2 years) it will be necessary to change the batteries. These instructions explain how to change the batteries using the “Battery Change Mode” which preserves the internal clock time. This mode saves the current clock time in memory, allowing the clock to restart from the saved time when the power is restored. The batteries should be reconnected with as little delay as possible to minimize clock error. To perform the operations you will need to have the Watch-DOG programming magnet. If the batteries are removed or die without activating the “Battery Change Mode” first, you will need to reset the Watch-DOG unit’s internal clock. Instructions for setting the clock, if necessary, can be found on page 2 of this document.

### **WARNING – FIRE/EXPLOSION HAZARD:**

- **Batteries must only be changed in an area known to be non-hazardous.**
- **Replace all cells with new cells of the approved type: Energizer L91 AA (“Ultimate Lithium”). Do NOT use any other type of cell.**
- **Only 6 cells should be installed in the battery holder. One section of the holder has a shorting wire. Do not install cells in this section of the holder. Installing additional batteries will impair intrinsic safety.**

To safely change the batteries...

1. Disconnect the Sensors from the Watch-DOG unit and bring the unit to an area that is known to be non-hazardous.
2. Remove the rear cover from the Watch-DOG by loosening the 4 retaining screws (one in each corner).
3. BEFORE unplugging the battery pack, Put Watch-DOG into Clock Save Mode: Hold magnet at Target #3 while watching LEDs until they all flash GREEN **after** cycling through RED and ORANGE. This will take approximately 10 seconds. Remove the magnet after you see the green flashes begin (the current time is now stored in memory).
4. All 3 LEDs will now begin to rapidly flash ORANGE. The unit is now in Clock Save mode and you can unplug the battery pack. *Note: if you do not unplug the battery pack within 30 seconds, the LEDs will stop flashing and the unit will return to normal operating mode.*
5. Connect the battery pack with new cells (reconnect within 5 minutes to minimize clock error).
6. Replace the cover and securely tighten the screws (**Use caution when tightening the screws to avoid over torquing as you may damage the enclosure**).
7. Reinstall the Watch-DOG unit and plug the sensor(s) back into the unit observing the connector labels and color coding. Be sure to tighten all sensor connector mounting collars until the lock into position. You will feel and hear a click as you rotate the collar clockwise into the locked position.
8. Swipe the magnet at position #1 to verify unit status. The LEDs will flash GREEN if the unit is ON. If they flash RED, the unit is OFF and will need to be turned on. **If the middle LED flashes ORANGE the clock will need to be reset** as it was not saved before the batteries were changed and is now set to the initial default time (Midnight). Instructions for setting the clock, if required, are on page 2.



## Setting the Watch-DOG 2 Internal Clock

If the internal clock time was not successfully saved before the batteries were changed, you will need to reset the clock using the following procedure.

### 1. Put Watch-DOG into Clock Set Mode:

- a. Hold magnet at Target #3 while watching LEDs until they all flash **orange** and then remove the magnet. LED #1 will now stay lit **red**.  
*(Note: the LEDs will flash green then red then orange while you hold the magnet at the target)*
- b. Hold magnet at Target #3 while watching LEDs until the remaining LEDs (#2 + #3) flash **orange** and then remove the magnet. LED #1 will now stay lit **orange**.
- c. Hold magnet at Target #3 while watching LEDs until the remaining LEDs (#2 + #3) flash **orange** and then remove the magnet. LED #1 will now stay lit **green**. The Watch-DOG unit is now in clock set mode.  
*(Note: the unit will return to normal operating mode after 1 minute if there is no further interaction with the magnet and the targets)*

### 2. Set the hours:

Hold the magnet at target #1 while watching LED #3. Each flash of the LED signifies a 1 hour increment. The LED flashes **red** for AM and **green** for PM. Count the flashes until you reach the desired set time, then remove magnet. The LED will then flash corresponding to the current set hours. If you need to add additional hours to the clock, hold the magnet at the target until you add the number of hours desired. Please set the clock hours to **local standard time**.

### 3. Set the minutes:

Hold the magnet at target #2 while watching LED #2 (middle LED). Each flash counts as an increment of 5 minutes. The count starts at zero whenever the LED changes color. Count the flashes until you reach the desired set time, then remove magnet. The LED will then flash **orange** for each 5 minute increment. If you need to add additional 5 minute increments to the clock, hold the magnet at the target until you add the number of increments desired.

### 4. Save the time:

You must exit the Clock Set Mode and save the clock settings by swiping the magnet across target #3.

### 5. Confirm the time:

You can confirm the clock setting by holding the magnet at target #3 for 3 seconds (watch the LEDs, they will change from **green to red**). Remove the magnet and count the flashes displayed on the LEDs. Hours will flash first (**red** = AM and **green** = PM) on LED #3, followed by LED #2 flashing **orange** the number of 5 minute increments.

#### Example:

To set the hour to 4:25 PM, hold the magnet at the target until you count 5 successive **green** flashes (corresponding to 12, 1, 2, 3, 4 PM). When you remove the magnet, the LED will flash **green** 4 times (corresponding to 1,2,3,4 PM). Then hold the magnet at target 2 until you see 6 successive flashes of the same color (corresponding to 0, 5, 10, 15, 20, 25), then remove the magnet from target #2. LED will flash 5 times (5x5 = 25). Swipe the magnet across target #3 to save the changes.