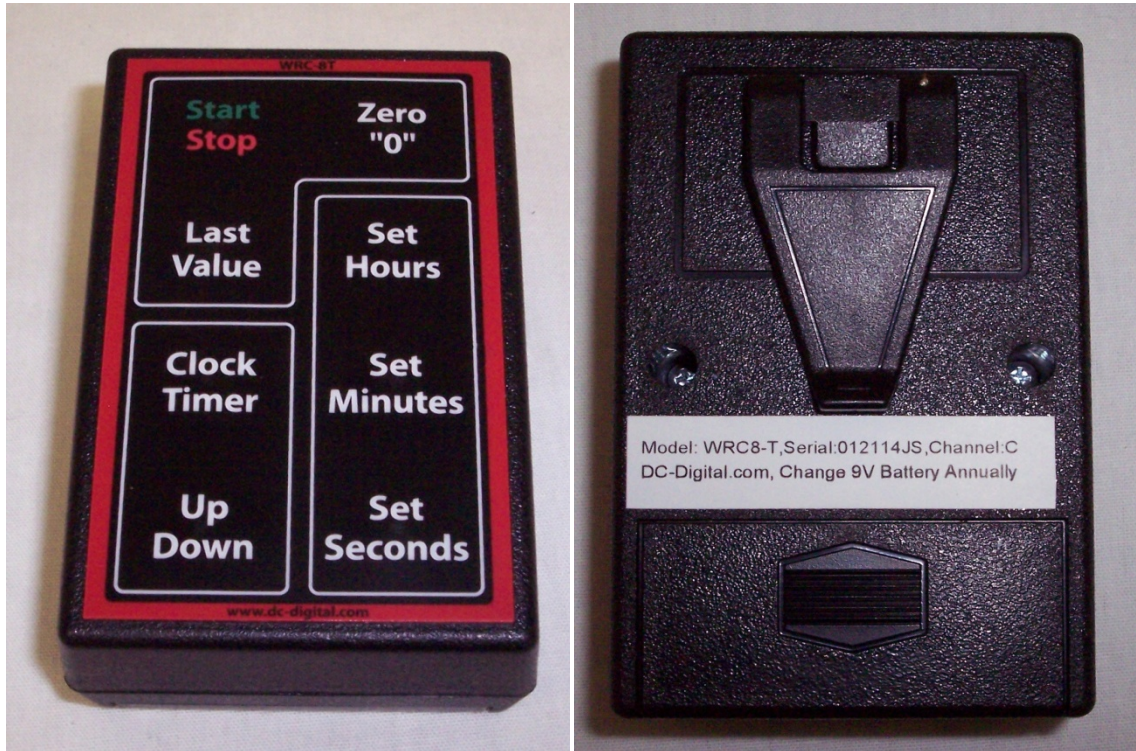




## Instructions for operating the WRC-8T Wireless Controller.



### Description:

- **The WRC-8T specifically controls the DC-Digital model's DC-XXX-UTW, wireless, multifunctional timers/time of day clocks.**
- This is a wireless handheld controller that houses a LoRa Radio Frequency (902–928 Mhz) Remote Control Module, FCC tested and certified per CFR Title 47 Ch.1 15.245. The radio and electronics controls DC-XXXUTW-A Clock/Timer types.
- Average working range is approximately 1500 feet outdoor, 300 feet indoor, depending on interference and or obstructions.
- The radio and electronics is housed in a Black Polycarbonate enclosure that comes equipped with a belt clip.
- There are 8 buttons (switches) that are made of metal dome membrane and make a snap sound when pressed and released.
- One press and release = one operation. Each time a button is pressed and released the receiving Clock/Timer will sound an acknowledgment tone if it is accepted as a logical operation. (This will be discussed in further detail below).
- The Controller is powered by one 9 volt alkaline battery (approximately 10,000 operations). It is recommended that the battery be replaced once every year to reduce corrosion buildup on the terminals.



- The standard factory radio channel is Channel “53,” but can be programmed upon request to accommodate additional Clock/Timers and their respective controllers operating in the same proximity, simultaneously.

### **Operation:**

- To operate the WRC-8T controller, a 9 volt alkaline battery power source is required.
- Attach a 9 Volt battery to the battery connector located on the back side of the handheld case under the slide away 9 volt battery cover.
- Each function of the controller is designated on the handheld case label overlaid on top of its associated button (switch) and may be more specific for the controlled Clock /Timer. **Note:** Several buttons have the capabilities of use in more than one mode of operation.
  - Specific **modes of operation:**
    - **Time of day** mode
    - **Timer up** mode
    - **Timer down** mode
- **Time of Day** mode: The controlled Clock/Timer is 12 Hour Time of Day only unless the optional 24 hour mode is ordered. When power is first applied to the Clock/Timer that is to be controlled the default mode is **Time of Day** mode. **Time of Day** mode can also be achieved by pressing and releasing the **Clock Timer** button. This will toggle the controlled display between those respective modes.
  - In **Time of Day** mode the only active function buttons are **Set Hours**, **Set Minutes** and **Set Seconds** (for zeroing the seconds).
    - Pressing and releasing either the **Set Hours** or the **Set Minutes** function button will cause that respective function to change on the controlled Clock/Timer. The hours or minutes will continue to step at a rate of 2 per second until the **Set Hours** or the **Set Minutes** function button is pressed and released a second time.
    - Pressing and releasing the **Set Seconds** will zero the **Time of Day** seconds.
- **Timer** modes: The controlled Clock/Timer has 2 Timer modes **Timer Up** mode and **Timer Down** mode. To change the controlled Clock/Timer to **Timer** mode press and release the **Clock Timer** function button. This button toggles the controlled Clock/Timer between the two respective modes.
- - **Timer Up** mode: The **Timer Up** mode is indicated by the illumination of the upper left LED. **Timer Up** mode is achieved by pressing and releasing the **Up Down** function button. Note: **Timer Up** and **Timer Down** modes toggle back and forth on the controlled Clock/Timer every time the **Up Down** function button is pressed and released.



- **Timer Up** mode Continued.
  - **Active** function buttons in **Timer Up** mode are:
    - **Start Stop**
    - **Zero “0”**
    - **Clock Timer**
    - **Up Down**
  - **Start Stop** function button: Press and release the **Start Stop** function button. This causes the Clock/Timer to:
    - **Start:** from a previously stopped or paused value.  
-Or-
    - **Start:** from zero.  
-Or-
    - **Stop:** Stops (pauses) the controlled Clock/Timer.

**Note:** Once the controlled Clock/Timer has been **started** and **running** the following function buttons will be **inactive:**

    - **Zero “0”**
    - **UP Down**
      - **Active function buttons:**
        - **Start Stop**
        - **Clock Timer**
  - **Zero “0”** function button: This function button is only active after the Clock/Timer has been stopped (paused). It returns the Clock/Timer back to zero; 00 Hours, 00 Minutes, 00 Seconds, 00 Hundredths.
  - **Clock Timer** function button: Can be pressed and released at any time during the timing process. Note: If the Clock/Timer that is being controlled is in the timing process and is running in **Timer Up** mode and the **Clock Timer** function button is pressed and released, then the Clock/Timer will display the Timer or the Time of Day Clock. If the time of day is being displayed, then the Upper Left LED will **flash** indicating that the **Timer Up** function is active and running.

- **Timer Up** mode Continued.
    - **UP Down** function button: This function button will be active only when the controlled Clock/Timer is in **Timer** mode and is stopped (paused). Pressing and releasing this button and the above condition has been met will cause the controlled Clock/Timer to switch from **Timer Up** mode to **Timer Down** mode. Note: pressing the **UP Down** function button toggles the controlled Clock/Timer between either **Timer Up** to **Timer Down** mode respectively. This function button is inactive during **Time of Day** mode and after the Timer has been **started** (running).
  - **Timer Down** mode: **Timer Down** mode is indicated by the illumination of the lower right LED. **Timer Down** mode is achieved by pressing the **Up Down** function button. Note: **Timer Up** and **Timer Down** modes toggle back and forth on the controlled Clock/Timer every time the **Up Down** function button is pressed and released.
    - **Active Function Buttons in Timer Down** mode:
      - **Start Stop**
      - **Zero “0”**
      - **Set Hours**
      - **Set Minutes**
      - **Set Seconds**
      - **Last Value**
      - **Clock Timer**
      - **Up Down**
    - **Start Stop** function button: To start the Timer Up timing process press and release the Start Stop function button. This causes the Clock/Timer to:
      - **Start:** from a previous value or
      - **Start:** from zero
      - **Stop:** Stops (pauses) the Clock/Timer
- Note:** Once the controlled Clock/Timer has been **started** and **running** the following function buttons will be **inactive:**
- **Zero “0”**
  - **Last Value**
  - **Set Hours**
  - **Set Minutes**
  - **Set Seconds**
  - **UP Down**



- **Timer Down** mode Continued.
  - **Active function buttons:**
    - **Start Stop**
    - **Clock Timer**
  - **Zero “0”** function button: This function button is only active after the Clock/Timer has been stopped (paused). It returns the Clock/Timer back to zero; 00 Hours, 00 Minutes, 00 Seconds, 00 Hundredths.

Note: The following setting functions can only be performed after the timer has been either one of the following:

- 1) Just powered up
- 2) Reset to the last value
- 3) Reset to Zero

- **Set Hours** function button: This function button is used to set the hours on the controlled Clock/Timer. Pressing this button once will cause the controlled Clock/Timer to start stepping up the **Timer Down** hours at a 2 per second rate. Pressing and releasing it again will cause the controlled Clock/Timer to stop setting the controlled Clock/Timer’s **Timer Down** hours. Note: This function button also sets the hours when the controlled Clock/Timer is in **Time of Day** mode. (4 digit Clock/Timers only; When the **Set Hours** function button is pressed and released the **seconds** will be automatically set to **zero.**)
- **Set Minutes** function button: This function button is used to set the minutes on the controlled Clock/Timer. Pressing this button once will cause the controlled Clock/Timer to start stepping up the **Timer Down** minutes at a 2 per second rate. Pressing and releasing it again will cause the controlled Clock/Timer to stop setting the controlled Clock/Timer’s **Timer Down** minutes. When the **Set Minutes** function button is pressed and released the **seconds** will be automatically set to **zero.** Note: This function button also sets the minutes when the controlled Clock/Timer is in **Time of Day** mode.
- **Set Seconds** function button: This function button is used to set the seconds on the controlled Clock/Timer. Pressing this button once will cause the controlled Clock/Timer to start stepping up the **Timer Down** seconds at a 2 per second rate. Pressing and releasing it again will cause the controlled Clock/Timer to stop setting the controlled Clock/Timer’s **Timer Down** seconds. (4 digit Clock/Timers only; When the **Set Seconds** function button is pressed and released the **hours** will be automatically set to **zero.**)



○ **Timer Down** mode Continued.

**Note:** On 4 Digit Clock/Timers Hours and Seconds cannot be set at the same time. It is either one or the other.

Ex. 1:30:00 (1 Hour, 30 minutes, 00 seconds)

Or

Ex. 00:1:30 (0 hours, 1 minutes, 30 seconds)

- **Last Value** function button: This button sets the controlled Clock/timer to the last preset **Timer Down** value (see **Set Hours**, **Set Minutes** and **Set Seconds** above). Once the **Timer Down** value has been set this button will allow it to be reset to the last value over and over until; 1 the power has been removed from the controlled Clock/Timer and or 2 the Zero “0” function button has been pressed causing all timer values to be set to zero.
- **Clock Timer** function button: Can be pressed and released at any time during the timing process. Note: If the Clock/Timer that is being controlled is in the timing process and is running in **Timer Down Mode** and the **Clock Timer** function button is pressed and released then the Clock/Timer will display the Timer or the Time of Day Clock. If the time of day is being displayed then the lower right LED will **flash** indicating that the **Timer Down** function is active and running.
- **UP Down** function button: This function button will be active only when the controlled Clock/Timer is in **Timer Mode** and is **stopped** (paused). Pressing and releasing this button and the above condition has been met will cause the controlled Clock/Timer to switch from **Timer Up** mode to **Timer Down** mode. Note: pressing the **UP Down** function button toggles the controlled Clock/Timer between either **Timer Up** to **Timer Down** mode respectively. This function button is inactive during **Time of Day** mode and after the Timer has been started (running).

**For further questions please contact Industrial Electronic Service D.B.A. DC-Digital @ 937-746-9750 or visit us @ www.dc-digital.com.**