

Programming the C7 Water Ionizer

C7 Control Panel & Display



The following functions (marked with a*) are set at factory default values. These default settings are based on normal water sources, such as municipal/city provided water. The default settings may require adjustments to match your local source water conditions. If you are unsure of your water quality (contaminant level, pH, TDS), you should have your water tested or test it yourself using a water quality test kit. [Ask your EcoQuest dealer for help if you are concerned about your water quality or with programming your C7.](#)



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1. FILTER LIFE SETTING (in liters) *
2. FILTER LIFE RESET (after water filter replacement)
3. MAINTAIN ELECTRODE CLEAN SETTING (in liters) *
4. RESET FOR ELECTRODE (after manual clean)
5. REGULAR MAINTAIN ELECTRODE (in liters) *
6. ADJUST ELECTROLYSIS POWER SETTING *
7. pH VALUE SETTING *
8. ORP VALUE SETTING *

1. FILTER LIFE SETTING:

This function sets the number of liters of water processed by the C7 before the filter **LIFE** LED on the C7 control panel activates notifying the user that the C7 water filter life is close to expiration and a filter change is required. Filter life can be set between 1,000 ~ 12,000 liters. The factory default setting is **12,000** liters. Depending upon the source water TDS, the filter life setting may need adjustment to ensure water quality. High TDS reduces the filter life.

0-80 TDS = 12,000L

81-180 TDS = 10,000L

181 – 700 TDS = 8,000L

>701 TDS = 6,000L

When the remaining filter life reaches 100 liters (L); the LCD display will turn light orange and a “beep” “beep” will sound and continue to sound until the water filter is replaced. The C7 water filter should be replaced before the remaining filter life reaches zero liters.

2. FILTER LIFE RESET:

This function resets the filter life countdown after replacing the filter. The C7 keeps track of the volume of water processed and counts down from the factory default filter life setting or other pre-set filter life value (set in #1 above) to zero liters. When the water filter is changed, filter life must be reset to once again start the countdown.

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3. MAINTAIN ELECTRODE CLEAN SETTING:

(USED ONLY IF THE FACTORY DEFAULT SETTING IS TO BE CHANGED)

This function sets the number of liters of water processed by the C7 before a *MANUAL* electrode (electrolysis engine) clean is required. It is recommended that a manual clean be performed with *each filter change* to maintain C7 peak water ionization performance. A manual clean involves temporarily installing a one-time use cleaning cartridge in place of the water filter. This setting should be the same as the filter life setting (#1). The manual clean value can be set between 10,000 ~ 20,000 liters. The factory default setting is **12,000** liters. If the filter life value has not been changed (from the default setting), this value should not be changed.

4. RESET FOR ELECTRODE:

This function is similar to the filter reset. The C7 keeps track of the volume of water processed and counts down from the pre-set manual electrode clean setting (see #3 above) to zero liters. After performing a manual electrode clean using a cleaning cartridge, you must reset the counter. The counter will remind you when it is time to perform a manual clean.

5. REGULAR MAINTAIN:

(USED ONLY IF THE FACTORY DEFAULT SETTING IS TO BE CHANGED)

This function sets the volume of water processed by the C7 before an *AUTOMATIC* electrode (electrolysis engine) clean is performed. This setting can be programmed between 30 ~ 60 liters. The factory default setting is **40** liters. If input water quality is poor, this setting can be changed to lower (less water processed) setting. If source water is municipal/city water, leave the setting at default.

6. ADJUST ELECTROLYSIS POWER SETTING:

(USED ONLY IF THE FACTORY DEFAULT SETTING IS TO BE CHANGED)

This function sets the electrolysis/ionization strength/power of the C7 electrolysis engine. There are three settings: **HIGH, MID and LOW**. The default setting is **LOW** based on an assumed TDS of 181 or higher ppm (**P**arts **P**er **M**illion). The electrolysis power setting depends of the TDS (**T**otal **D**issolved **S**olids) or mineral content of the source water* entering the C7.

*Source water is the water going into the water ionizer. If there are no water preconditioning filters/cartridges in line **BEFORE** the C7 water IN connection on the bottom of the C7, then the source water is the tap water. If an above counter external single pre-remineralization water conditioning unit is installed inline before the C7, then the source water is the water coming out the single pre-remineralization unit.

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- Source water with a **LOW TDS** (below 150 ppm) requires a **HIGH** setting.
- Source water with a **MEDIUM TDS** (between 151 to 180 ppm) requires a **MID** setting.
- Source water with a **HIGH TDS** (above 181 ppm) requires a **LOW** setting.

If you are unsure of what your source water TDS is, [contact your EcoQuest Dealer](#).

7. pH VALUE SETTING & 8. ORP VALUE SETTING

The pH and ORP values of water processed/ionized by the C7 are calculated by the C7 based on source water with a neutral pH value of 7.0 which is typical of most municipal/city provided water. Water from other sources can vary in pH value. Well water and other natural water sources typically have a lower (acidic) pH value. Water that has been preconditioned using water conditioning units will generally have a higher (alkaline) pH value because minerals and trace minerals are added to the water entering the C7.

Factory default settings are based on neutral pH 7.0 source water. Default pH and ORP values can be adjusted to better match the pH of the source water (the water entering the water IN connection on the bottom of the C7).

All six settings/buttons should be adjusted and water output pH checked with an accurate pH meter so that when a specific water type/button is selected, the C-7 will produce accurate (pH) water. The water produced may not always exactly match the pH value indicated on the C7 control panel button since source water can vary from day to day. The following shows estimated pH and ORP values for each water type selected. Adjusting each C7 water button/setting as described above should enable the C7 to produce "close to accurate water" for each water type selected.

- Alkaline Water **Level 1**. Button/setting: **8.5**. Actual pH: 8.1 ~ 8.8. ORP: @-160mv
- Alkaline Water **Level 2**. Button/setting: **9.0**. Actual pH: 8.6 ~ 9.3. ORP: @-240mv
- Alkaline Water **Level 3**. Button/setting: **9.5**. Actual pH: 9.1 ~ 9.8. ORP @-320mv
- Alkaline Water **Level 4**. Button/setting **10.0**. Actual pH: 9.6 ~ 10.4. ORP: @-400mv
- **Filtered Water**: Actual pH will be close to the pH of the incoming source water; approximately 7.0 with an ORP value of @+250mv
- **Acidic**. Setting: 5.5. Actual pH: 5.1-5.8. OPR: @ +520mv

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SETTING FUNCTIONS 1 ~ 6:

1. FILTER LIFE SETTING:

- a) Press the **SET** button on the C7 control panel for **6 - 10** seconds until it beeps. This will set the C7 into programming mode. The LCD display will turn **GREEN**.
- b) Functions 1 ~ 4 are displayed. Use + or - button to display all 6 functions:
 - (1) Set for Filter Life
 - (2) Filter Replace Set
 - (3) Maintain Electrode
 - (4) Reset for Electrode
- c) Press **SET**. The display reads Set for Filter Life. The *factory default* setting of **12,000** liters is displayed.

NOTE: If your source water is of poor quality (high contaminate, high sediment, extremely high chlorine, etc), filter life should be set at a lower value or water preconditioning should be considered. If your water quality is suspect, you should have your water tested or test it yourself with a water test kit. [Ask your EcoQuest Dealer for help -if you are unsure.](#)

2. FILTER LIFE RESET :

- a) Press **SET**.
- b) Functions 1 ~ 4 are displayed.
- c) Use the **-** button to scroll down to Filter Replace Set. Then press SET.
- d) Press the **RESET** button on the C7 control panel. This will reset the filter life countdown.

3. MAINTAIN ELECTRODE CLEAN SETTING:

- a) Press **SET**.
- b) Functions 1 ~ 4 are displayed.
- c) Use the **-** button to scroll down to MAINTAIN ELECTRODE.
- d) The display reads ELECTRODE. The value displayed should be the same as the filter life default setting of 12,000 liters unless the filter life default setting was changed in step #1 above).

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- e) Skip to step #4 unless you have changed the filter default setting (step 3) or need to change this setting to match the filter life setting.
- f) To change the maintain electrode default setting: Use the **–** button to decrease the value. Use the **+** button to increase the value.

4. RESET FOR ELECTRODE:

- a) Press **SET**.
- b) Functions 1 ~ 4 are displayed.
- c) Use the **–** button to scroll down to Reset For Electrode, then press SET.
- d) Press the **RESET** button. This will reset the manual electrode clean countdown.

5. REGULAR MAINTAIN ELECTRODE CLEAN SETTING:

- a) Use the **–** button to scroll down to Regular Maintain, then press SET.
- b) LCD reads DEFAULT setting of **40** liters.
- c) Skip to step #6 unless you want to change the auto electrode clean activation to a higher or lower value.
- d) To change the auto electrode clean default setting: Use the **–** button to decrease the value. Use the **+** button to increase the value.

6. ADJUST ELECTROLYSIS POWER SETTING:

- a) Press **SET**.
- b) Use the **–** button to scroll down to Adjust Electrolysis, then press SET.
- c) LCD reads HIGH, MID and LOW
- d) Factory default setting is **LOW**.
- e) To change the electrolysis power setting: Use **+/-** buttons to change the setting. When finished, press the 10pH button to exit programming.

SETTING FUNCTIONS 7 & 8 (pH & ORP settings):

1. Press the **FUNC** button for **6 – 10** seconds until Beep to enter the pH/ORP programming mode. The LCD display will turn **GREEN**. Press the >10.0 button to exit programming mode.
2. The LCD display shows 4 alkaline water levels and 1 acidic water level.



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- 1 = alkaline level 4
- 2 = alkaline level 3
- 3 = alkaline level 2
- 4 = alkaline level 1
- **5 = Acidic**

3. Press **SET**. (Set alkaline level 4 (1st line on display) pH and ORP values):

- a) Factory alkaline level 4 **pH** default (**10.0**) is highlighted. Adjust range: 9.6 ~ 10.4.
- b) Use the **+** button to increase the pH value. Use the **-** button to decrease the pH value.
- c) Press **FUNC** button.
- d) Factory alkaline level 4 **ORP** default -400 is highlighted. Adjust range: -320 ~ -460.
- e) Use the **+** button to increase the ORP value. Use the **-** button to decrease the ORP value.

4. Press **SET**. Display shows 4 alkaline and 1 acidic levels.

- a) Use **-** button to scroll to alkaline level 3.
- b) Factory alkaline level 3 **pH** default 9.5 is highlighted. Adjust range: 9.1 ~ 9.8.
- c) Use the **+** button to increase the pH value. Use the **-** button to decrease the pH value.
- d) Press **FUNC** button.
- e) Factory alkaline level 3 **ORP** default -320 is highlighted. Adjust range: -240 ~ -380.
- f) Use the **+** button to increase the ORP value. Use the **-** button to decrease the ORP value.

5. Press **SET**. Display shows 4 alkaline and 1 acidic levels.

- a) Use **-** button to scroll down to alkaline level 2.
- b) Factory alkaline level 2 **pH** default 9.0 is highlighted. Adjust range: 8.6 ~ 9.3.
- c) Use the **+** button to increase the pH value. Use the **-** button to decrease the pH value.
- d) Press **FUNC** button.
- e) Factory alkaline level 2 **ORP** default -240 is highlighted. Adjust range = -160 ~ -300
- f) Use the **+** button to increase the ORP value. Use the **-** button to decrease the ORP value.

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6. Press **SET**. Display shows 4 alkaline and 1 acidic levels.

- a) Use – button to scroll down to alkaline level 1.
- b) Factory alkaline level 1 **pH** default 8.5 is highlighted. Adjust range: 8.1 ~ 8.8
- c) Use the + button to increase the pH value. Use the – button to decrease the pH value.
- d) Press **FUNC**.
- e) Factory alkaline level 1 **ORP** default –160 is highlighted. Adjust range = -80 ~ -220
- f) Use the + button to increase the ORP value. Use the – button to decrease the ORP value.

7. Press **SET**. Display shows 4 alkaline and 1 acidic levels.

- a) Use – button to scroll down to acidic (5.5).
- b) Factory acidic **pH** default value 5.5 is highlighted. Adjust range: 5.1 ~ 5.8
- c) Use the + button to increase the pH value. Use the – button to decrease the pH value.
- d) Press **FUNC**
- e) Factory acidic **ORP** value +520 is highlighted Adjust range : +440 ~ +580
- f) Use the + button to increase the ORP value. Use the – button to decrease the ORP value.

8. To exit the programming mode press the **10.0** button. LCD display will turn **BLUE**.

NOTE: The ORP reading displayed on the LCD screen are calculations based on the function selected and does not represent the actual ORP value produced.