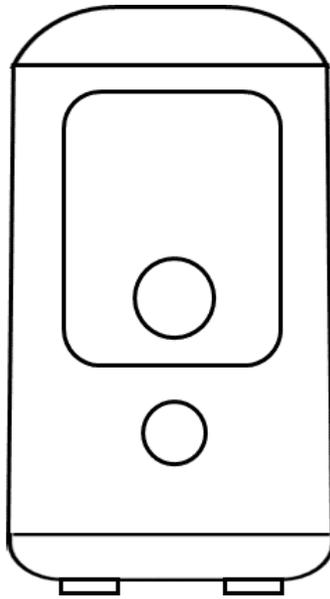
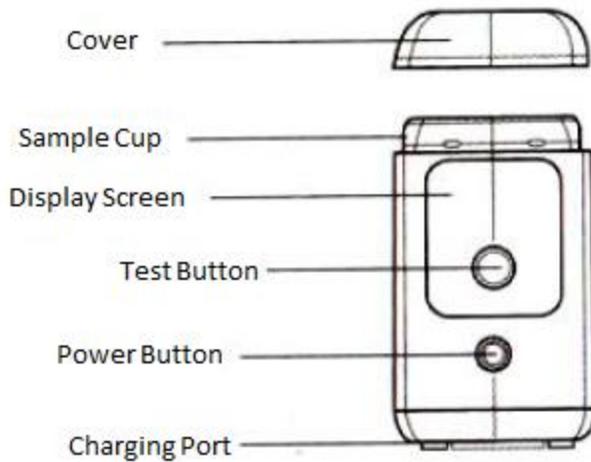


## Envig 3-in-1 TOC Water Quality Tester



## Parts and Features



## Specification

Model	EV-WQ-TOC1H
Dimension	3.6" x 2" x 2" (92 x 52 x 52mm)
Weight	115g
Battery	200 mAH
Power Input	5V, 1A
Operating Temperature	50 – 104 °F / 10 – 40 °C
Water Sample Temperature	41 – 113 °F / 5 – 45 °C
Recalibration Distilled Water Temperature	59 – 95 °F / 15 – 35 °C

## Detection parameter

	TDS	TOC	COD
Detection Range*	0-2000 ppm	0-10 ppm	0-10 ppm
Max Error	10% FS	10% FS	10% FS
Reading Resolution	1 ppm	0.1 ppm	0.1 ppm

\*Lowest detection range is 0.01 ppm

## Operation

### First Time Use:

Before the first time use, please charge the tester. Use 5V/1A adapter for the charging. Other adapter may reduce the life expectancy of the battery. Charge for one hour or until the battery is full.

Due to long distance transportation, recalibration may be necessary before first time use. Please refer to the recalibration section.

### **Turn On:**

After the tester is fully charged, long press the power button for one to two seconds until the Press Button sign is displayed.

**Note:** The power button is recessed. Please make sure it is firmly pressed.

### **Testing:**

Use to-be-tested water sample to flush the sample cup one or two times to clean up other sample residuals in the sample cup from previous tests. Fill enough water sample in the sample cup. Volume of water sample should fully cover the black section of the sample cup. Avoid bubble in water sample or wait until bubble disappear. Place the tester on a flat surface. Press the test button, a turning circle in the display should indicate the testing is underway. Testing results will then be displayed.

**Note:** Wait about 20 seconds between multiple testing to avoid overheating of the internal unit inside the tester. Water sample with bubble may interfere the testing accuracy. Water sample outside of the temperature range will trigger a temperature sign in the display. A Missing Sample sign (a water drop sign with a cross mark) will be displayed if there is no water sample in the sample cup.

### **Application:**

The tester should be used on testing of drinking/tap water.

It should not be used to test other water contents including but not limited to: sewage, reclaimed water, water with high turbidity, drain water from water filtration systems, beverage, corrosive fluid, etc.

**Note:** Testing on non-permissible water content may damage the device.

## **Recalibration**

Use fresh distilled water for recalibration. Distilled water with a long shelf time should be avoided due to possible bacteria growth.

Flush the sample cup with distilled water for a few times. Fill enough distilled water in the sample cup. Volume of distilled water should fully cover the black section of the sample cup.

With the tester turned on, long press the test button for 10 seconds. A targeting sign with a turning circle in the display should indicate the recalibration is underway. A check mark should then be displayed to indicate the recalibration is completed.

When a cross mark is displayed, the recalibration is not successful. Repeat the recalibration process.

Due to the purity of some distilled water, a Missing Sample sign may show up. If it happens, refill the tester with tap water and press the test button. This will restore the testing capability. After that, redo the recalibration. Repeat this if necessary.

Recalibration is suggested/required in the following situations:

- First time use
- Dropping of the tester
- Sample water temperature out of the permissible range
- Sample water with high turbidity
- Unused for a long time
- Repeated use in a short period of time

**Note:** Temperature of the distilled water should be within the permissible range and is best at 77 ° F (25 ° C) to minimize the temperature impact on recalibration accuracy. Do not use ultrapure water for recalibration as it will trigger Missing Sample sign.

## Maintenance

Maintenance is required after long time use or when recalibration does not fix noticeable testing discrepancy.

Fill the Collector Cup with above 90% rubbing alcohol. Set it aside for 3 minutes. Then use a clean cotton swap to gently rub the circular detection surface (on the side) and the metal probe (at the bottom) within the Collector Cup. Dump the rubbing alcohol and flush the Collector Cup with distilled water for a few times.

## FAQ

Q: I can't power it up

A: The power button is a bit recessed and relatively small. Please make sure you firmly press it for one to two seconds until you see the press button sign in the display screen.

Q: I can't get it recalibrated. It keeps failing with Missing Sample sign. Is it defective?

A: It is not defective. There is a function for the tester to show when there is no sample water in the sample cup for testing. To do that, the tester use the TDS meter. The lowest testing range for the TDS meter is 0.01PPM. When the distilled water is quite pure (no ultrapure water for recalibration for this reason), the TDS meter will deem that there is no sample water, as such the Missing Sample sign is shown. Just fill the sample cup with tap water and press the test button to restore the testing capability, then repeat the recalibration process again. Repeat this process if the Missing Sample sign shows again. It should recalibrate properly after a few times at most.

Q: I take the same tap water a few times and the readings are different. Is this right?

A: The tester is a precision device. Its reading can be affected by slight change in the sample. Different samples should have different readings. But if the samples are taken from the same water source at about the same time, the difference between the readings should be small, and the overall average of the readings should give you more accurate information about the water quality. It is a common practice as well.

