

Multi-parameter
Water Quality Tester

TR-100

User Manual

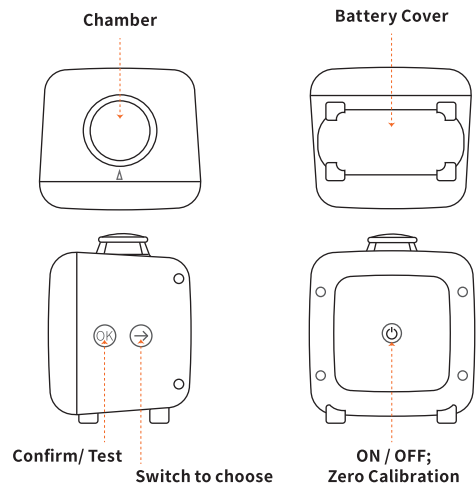


General Information

Thank you for choosing TR-100. Please read user manual before use. Failure to do so may affect the accuracy.

Contents & Accessories

- 1 x cardboard box
- 1 x dropper
- 1 x TR-100 tester
- 1 x vial
- 1 x user manual
- 1 x stirring rod
- 1 x screwdriver
- 1 x cleaning cloth
- Refill tablets and kits



Technical Specification

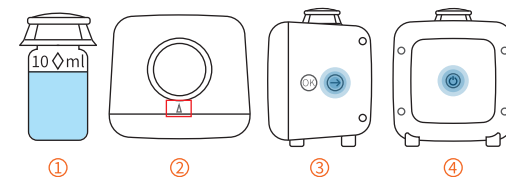
Display	60.5X37mm LED
Language	English
Temperature	0 – 50°C
Humidity	90% relative humidity (non-condensation)
Power Supply	2 x "AA"1.5v batteries Automatic shutdown function
Memory Capacity	99
Dimension	80*72*82mm
Weight	179g

IMPORTANT

- Press and hold button to turn TR-100 ON and OFF;
- Cap the vial securely to prevent leaks;
- Dry the vial before placing them in the chamber;
- Brush and rinse vial and caps after each testing;
- Use only Jilintest replacement tablets;
- Not to be used by children except under adult supervision.

Zero Calibration

Each time TR-100 is turned on, 1 calibration is valid for 50 minutes. When TR-100 runs over 50 minutes or is switched off, it is necessary to re-calibrate before test.



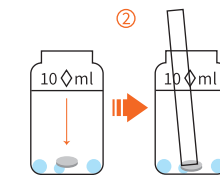
- Fill sample vial to 10 ml line with water sample and cap the vial securely.
- Insert the vial into TR-100.
- Press "" to choose one testing item.
- Press briefly to calibrate zero.

"OK" blinks to indicate that calibration is in progress. "OK" is always on to indicate that the calibration is completed.

Detection

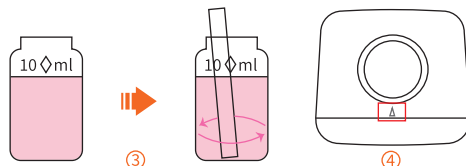
FCL/ Br	Free Chlorine 0-10mg/L Bromine 0-20mg/L
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- Press "" to choose FCL/ Br.
- Add 1 DPD 1 tablet to the sample vial (a few water sample drops inside) and then crush it completely with a stirring rod.

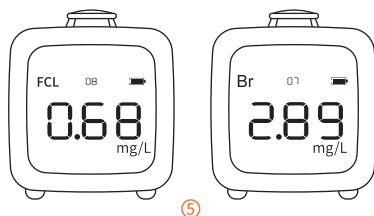


- Fill the same vial to 10 ml line with the same water sample, stir well and cap the vial securely.

- Insert the vial into TR-100.

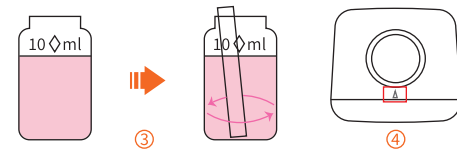


- Press "OK" and it read after countdown 5s.



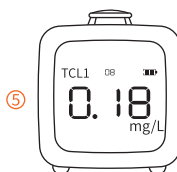
- Fill the same vial to 10 ml line with the same water sample, stir well and cap the vial securely.

- Insert the vial into TR-100.



- Press "OK" and it read after countdown 5s.

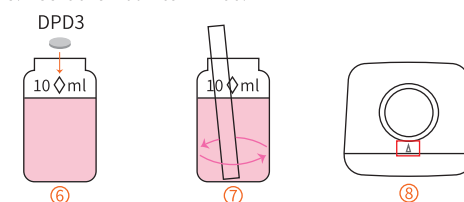
When number "TCL1" is displaying instead of "OK", it indicates TR-100 is reading FCL.



- Remove the vial, and add 1 DPD 3 tablet into the same vial.

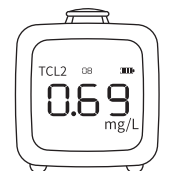
- Crush it completely with a stirring rod, stir well and cap the vial securely.

- Insert the vial into TR-100.



- Press "OK" and it reads after countdown 120s. When number "TCL2" is displaying instead of "OK", it indicates TR-100 is working TCL.

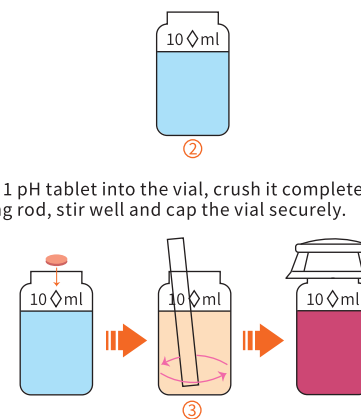
CCL=TCL-FCL



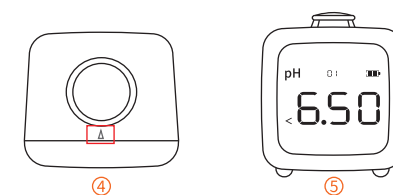
pH	Phenol Red 6.5-8.4
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- Press "" to choose pH.
- Fill a clean vial to the 10ml line with water sample.

- Add 1 pH tablet into the vial, crush it completely with a stirring rod, stir well and cap the vial securely.

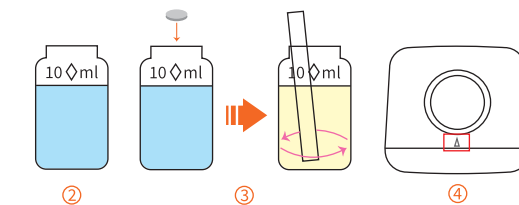


- Insert the vial into TR-100.
- Press "OK" and it read after countdown 5s.



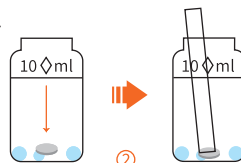
Alk	Alkalinity 0-500mg/L
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- Press "" to choose Alk.
- Fill a clean vial to the 10ml line with water sample.
- Add 1 Alk tablet into the vial, crush it completely with a stirring rod, stir well and cap the vial securely.
- Insert the vial into TR-100.



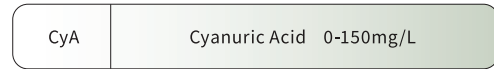
- Press "" to choose TCL.

- Add 1 DPD 1 tablet to sample vial (a few water sample drops inside) and then crush it completely with a stirring rod.

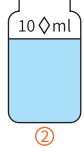


TCL	Total Chlorine 1-10mg/L
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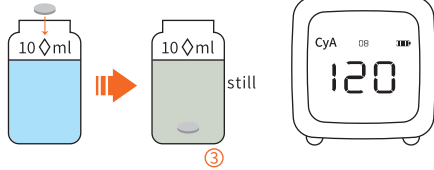
5. Press "OK" and it reads after countdown 60s.



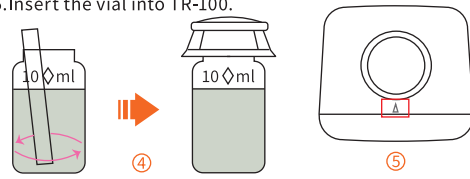
1. Press "→" to choose CyA.
2. Fill a clean vial to the 10ml line with water sample.



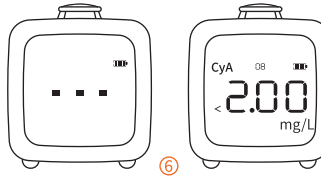
3. Add 1 CyA tablet into the vial and press "OK" to countdown 2 minutes.



4. Stir until it dissolves completely and cap the vial securely.
5. Insert the vial into TR-100.



6. Press "OK" to read.



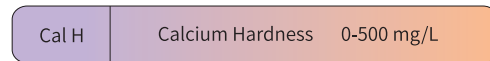
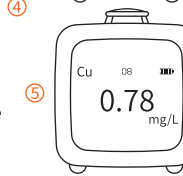
1. Press "→" to choose Cu.
2. Fill a clean vial to the 10ml line with water sample.
3. Add 2 drops of copper reagent I, then add 3 drops of copper reagent II.



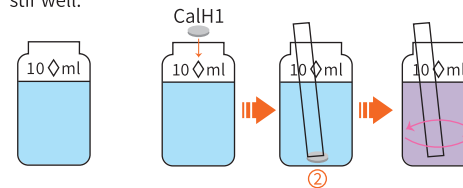
4. Cap the bottle, shake for 5 seconds, then put the vial into TR-100 and wait for 1 minute.



5. TR-100 provides a timer function. It will automatically read result when the countdown ends.



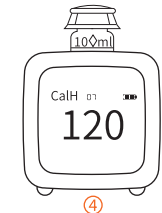
1. Fill a clean vial to the 10ml line with water sample.
2. Add 1 CalH1 tablet into the vial, crush it completely, stir well.



3. Add 1 CalH2 tablet into the vial, crush it completely, stir well and cap the vial securely.



4. Insert the vial into TR-100.

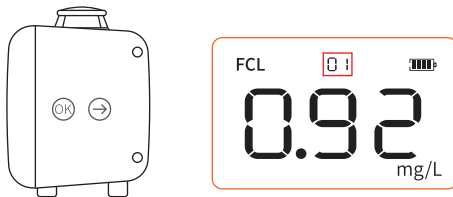


5. Press "OK" and it reads after countdown 2 minutes.



History

TR-100 can store the latest 99 sets of test results.

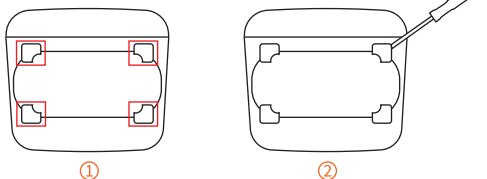


Press and hold the "→" button on the test interface to view the history record. The history record will display the results of the latest test (sample number from large to small). Click "OK" button to switch history records.

The sample number will flash when showing history records.

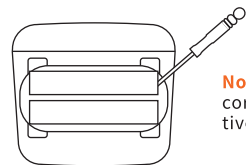
Battery Replacement

1. Before replacing the battery, you need to remove the screws at the four corners of the battery cover.



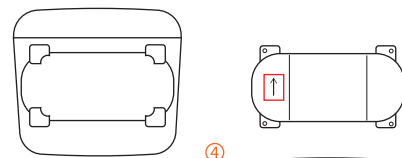
2. Use a flat-blade screwdriver to slowly lift any corner, and then remove the battery cover.

3. When removing the battery, you can use a flat-blade screwdriver to lift one side of the battery from the positive terminal, and then take out the battery.

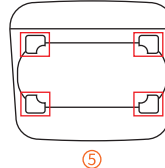


Note: Please install the battery correctly according to the positive and negative terminal.

4. After replacing the batteries, reinstall the battery cover back to the instrument. The two short corners should face the direction of the screen when installing.

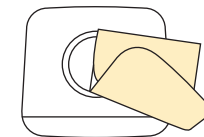


5. Reinstall all four screws.



Cleaning

After each test, clean the vial, clean and dry the stirring rod, and ensure that clean equipment is used for each test.



Contamination of the chamber can affect the accuracy of the readings and trigger error messages. Wipe the walls of the chamber with a soft wet cloth or an anti static foam cleaner, do not use solvents. (Instrument failure caused by pollution is not covered by the warranty)

Warranty

This instrument to be free of defects in parts and workmanship for 1 year from the date of shipment. This warranty does not apply to defects resulting from action of the user such as misuse, operation outside of specification, improper maintenance or repair.

JILINTEST specifically disclaims any implied warranties or fitness for a specific purpose and will not be liable for any direct, indirect, incidental, or consequential damages.

Troubleshooting Guide

If a problem occurs during the test, TR-100 will display it as an E plus a numeric value, with the specific error message shown in the table below.

Error Code	Possible Causes	Recommended Actions
E6	A reminder of zero calibration	Zero calibration
E7	External light source entering the cell holder	Check and replace light cover
		Move the instrument to a location with less direct light
E8	Optics failure	Please contact customer service
E9	The vial is dirty during zero calibration	Check and clean the vial
	The chamber is contaminated	Check and clean chamber

A common cause of triggering the above error messages is contamination of the chamber and vial. Please refer to "Cleaning".

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