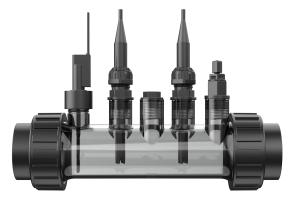
Inverter Salt Chlorinator

Operating Instructions







InverClear

INDEX

1 Warnings	1
2 Product Introduction 2.1 Product Specification 2.2 Electronic Connections	2
3 Pool Water Preparation 3.1 Adding Salt 3.2 Chemical Water Balance	5
 4 Control Unit Operation 4.1 General Screen View 4.2 Chlorine Production Mode Introduction 4.3 LED Indicator Introduction 4.4 Basic Commands and Functions 4.5 Combination Commands and Operation 	.6 .8 .9 .9
5 Salt Replenishment 1	8
6 Maintenance	9 9 20
7 Winterizing 2	20
8 Wi-Fi Instruction	21 24
9 Error Code and Solution2	25
10 After-Sales Support	28

1 Warnings



MARNING: General Information

- 1. Carefully read the instructions that appear in this manual and on the device. Failure to comply with the instructions can cause injuries. This document must be given to every pool user, who should keep it in a safe place.
- Chemicals can cause internal and external burns. To avoid death, serious injury and/or 2. damage to equipment, wear personal protective equipment (gloves, goggles, mask, etc.) when servicing or maintaining this device. This device must be installed in an adequately ventilated place.
- The appliance is not to be used by persons (including children) with reduced physical, 3. sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children must not play with the device. User maintenance and cleaning must not be 4. carried out by unsupervised children.
- Use only original Aquark parts. 5.
- Instructions are also available on https://www.aquark.com/inverclear-salt-chlorinator/ 6.

MARNING : Electrical Hazard.

- 1. The equipment is intended to be used only in swimming pools.
- 2. Disconnect the equipment from the mains supply before any intervention.
- All electrical connections must be carried out by a gualified approved electrician in 3. accordance with the standards currently in force in the country of installation.
- Check that the device is plugged into a power outlet that is protected against 4. short-circuits. The device must also be powered via an isolating transformer or a residual current device (RCD) with a nominal operating residual current not exceeding 30 mA.
- Check that the supply voltage required by the product corresponds to the voltage of the 5. distribution network and that the power supply cables are suitable for the product power supply.
- To reduce the risk of electric shock, do not use an extension cable to connect the device 6. to the mains. Use a wall socket.
- The device must not be used if the power cord is damaged. An electric shock could 7. occur. A damaged power cord must be replaced by the after-sales service or similarly qualified persons to avoid danger.

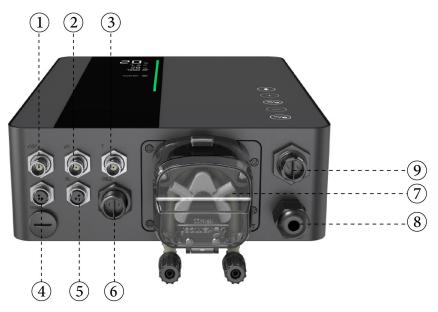
2 Product Introduction

2.1 Product Specification

Model	ICS10	ICS16	ICS22	ICS28
Chlorine production (g/h) (Salinity: 3000 PPM)	10	16	22	28
Pool Volume (m ³)	15-45	25-65	35-75	45-100
Recommended Salinity	2	2 - 5 (recomme	nded 3g/L)	
Power Supply		AC 100~240\	/ 50/60Hz	
Max. Output Voltage	DC 12V			
Max Input Power	70 W 100 W 120 W 175 W		175 W	
Advised water flux (m ³ /h)	5 m ³ /h~18 m ³ /h			
Operating Water Temperature	10℃~40℃			
Ambient Temperature	-5℃~42℃			
Pressure for Electrolytic Cell	3.0 Bar for Sensor Holder, 4.5 Bar for Electrolysis Cell			
IP Rating	IPX4			
Cell Lifetime	Up to 10000H			

2.2 Electronic Connections

2.2.1 Control Unit with In-Built pH Regulator



No.	Port Name	Photo		Description
1	ORP	6	BNC Co	nnector for ORP probe
2	рН		BNC Co	nnector for pH probe
3	Temp	6		nnector for temperature sensor (Integrated pH sensor)
		<u>∧_1</u>	1	485 - A
4	485 COM	3	3	485 - GND
		4	4	485 - B
5	Flow Switch		Connector for flow switch	
6	Power Output		Terminal for cell power	
			Left	Acid inlet
7	In-built pH Regulator		Right	Acid outlet
8	Power Input	6	AC power connector (100/240V, 50/60Hz)	
9	AUX		Reserved power connector	

2.2.2 Control Unit with External pH Regulator



No.	Port Name	Photo		Description	
1	ORP	5	BNC Cor	nnector for ORP probe	
2	рН	5	BNC Cor	nnector for pH probe	
3	Temp	5	BNC Cor the pH s	nnector for temperature sensor (Integrated with ensor)	
		<i>→</i> .1	1	485 - A	
4	485 COM	3	3	485 - GND	
		4	4	485 - B	
5	Flow Switch		Connector for flow switch		
6	Power Output	6	Terminal for cell power		
7	Decorative Panel	0 0	External pH regulator decorative panel		
8	Power Input	6	AC power connector (100/240V, 50/60Hz)		
9	AUX	6	Reserved power connector		
10	Doser		Connect	Connector for external pH regulator	

3 Pool Water Preparation

To prepare the pool water to enable the chlorinator, its chemical composition must be balanced and salt added. Certain adjustments to the chemical balance of the pool can take several hours.

The procedure **MUST** therefore be started well **BEFORE** the chlorinator is turned on.

3.1 Adding Salt

Add the salt several hours or, if possible, a day before turning on the chlorinator. Ensure that the recommended amount of salt is used.

Measure the salt content 6 to 8 hours after adding the salt to the swimming pool.

NOTE:

- If the water in the pool is not fresh and/or if it is liable to contain dissolved metals, use a metal remover, according to the manufacturer's instructions.
- If your water has previously been treated with a product other than chlorine (bromine, hydrogen peroxide, PHMB, etc.), neutralize this product or replace all the water in the pool.
- If using mineral salt (Magnesium chloride and / or Potassium chloride) add approx. 1.4times the amount of normal salt. (Optimum mineral salt level 4200ppm).
- If your water is supplied from a well, shock chlorination with trichloroisocyanuric acid (2 kg/50 m³ of water).

3.2 Chemical Water Balance

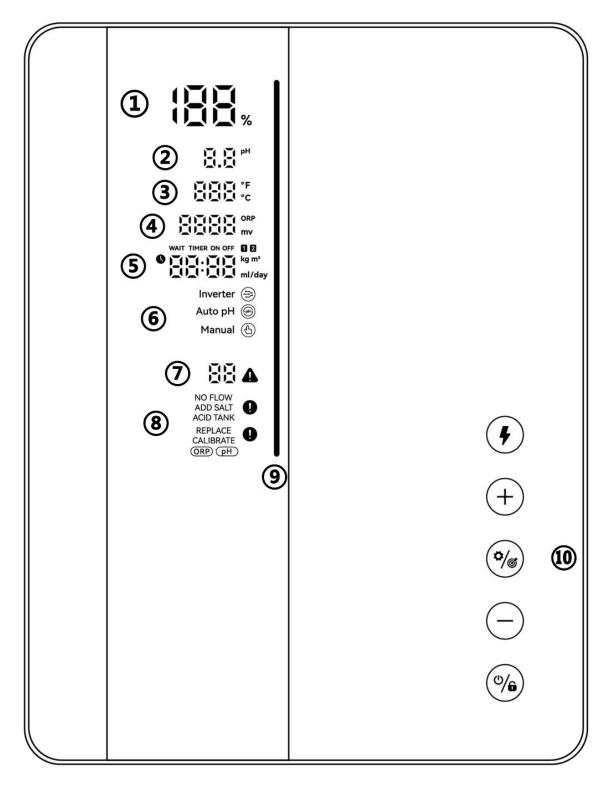
The water must be balanced manually **BEFORE** the device is started up.

The following table summarizes the concentrations recommended. Your water should be checked regularly to maintain these concentrations and minimize surface corrosion or deterioration.

CHEMISTRY	Recommended CONCENTRATIONS	
Salt	Salt 3.0 g/l	
Salt (Low salt)	Salt (Low salt) 2.0g/l	
Free chlorine	Free chlorine 1.0 to 3.0 ppm	
рН	pH 7.2 to 7.6	
Cyanuric acid (stabilizer)	20 to 30 ppm max, 0 ppm in indoor pool (Add stabilizer only if necessary)	
Total alkalinity	80 to 120 ppm	
Water hardness	200 to 300 ppm	
Metals	0 ppm	
Algaecide	Use of algaecide is an option, but must be copper free	

4 Control Unit Operation

4.1 General Screen View



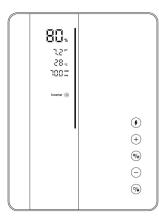
Marked Area	Description	lcon
1	Real-time chlorine production/ OTA updating progress.	
2	Real-time pH * When pH <6.5 or pH> 8, the pH number will flash.) () рн () ()
3	Real-time water temperature ($^{\circ}C/^{\circ}F$)	ĬĨĨĨĨĨĨ IĨĨĨĨĨĨ°F IĨĨĨĨĨĨĨ°C
4	Real-time ORP value * display "" when the value exceeds 990mV * When ORP < 600, the ORP icon and number will flash.	ORP
5	Pool volume, Boost mode countdown, salt adding amount, time, acid adding amount.	WAIT TIMER ON OFF 22 kg m ³ Wilday
	Chlorine Production Mode: Inverter Mode	Inverter 🚖
6	Chlorine Production Mode: Auto pH Mode	Auto pH
	Chlorine Production Mode: Manual Mode	Manual 🕒
7	Error codes	88 🕰
8	Warnings	NO FLOW ADD SALT ACID TANK
9	LED Indicator Green: Suitable for swimming Red: Unstable water condition Abnormal ORP or pH value (LED keep blinking) * Only available with ORP probe & pH/Temp probe	
	Boost Mode Switch	•
	Tuning up	+
(10)	Settings/Calibration	¢/\$
	Tuning down	$\overline{}$
	Power/Lock	0/6

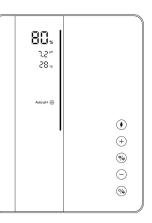
4.2 Chlorine Production Mode Introduction

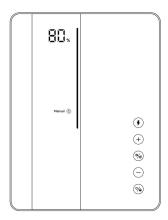
The chlorinator can be configured to 3 different types according to different chlorine production modes.

Configuration		Premium Model	Medium Model	Basic Model
Hardware Options		ORP+pH+Doser	pH+Doser	/
Selectable	Inverter Mode	\checkmark	-	-
Chlorine Production	Auto pH Mode	-	\checkmark	-
Mode	Manual Mode	√	\checkmark	\checkmark

The HOME screen of each chlorine mode is shown as follows:







Inverter Mode

Auto pH Mode

Manual Mode

4.3 LED Indicator Introduction

	Status	LED Indicator
	Suitable for swimming	Green
Re-time Water quality Display	1.Unstable water condition 2.Abnormal ORP or pH value * Only available with ORP probe or pH/Temp probe	Red, keep blinking
Oblasias	Chlorine producing	 Inverter Mode: Scrolling and displaying the water quality. Auto pH Mode: Scrolling, turns red if with abnormal pH value. Manual Mode: Scrolling, keeps green
Chlorine production	Stand by	Inverter Mode: Keep displaying water quality Auto pH Mode: off Manual Mode: off
	Chlorine production is stopped due to errors	Inverter Mode: Keep displaying water quality Auto pH Mode: Red Manual Mode: Red
Calibration	1. pH Calibration 2. ORP Calibration	 In operation: Red and blinking Completed: LED indicator turns green and the beeper sounds
Wi-Fi	Wi-Fi Connection	 In operation: Red and blinking Completed: LED indicator turns green and the beeper sounds
ΟΤΑ	OTA updating progress.	 In operation: LED Indicator scrolls dynamically Completed: LED indicator turns green and the beeper sounds
S	Screen Locked	Inverter Mode: Keep Displaying water quality Auto pH Mode: ① Off ② Red and blinking if PH value is abnormal. Manual Mode: Off

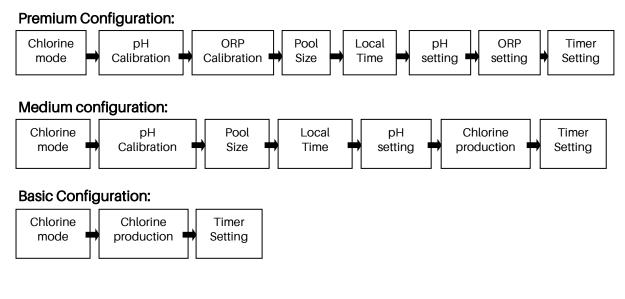
The LED Indicator of each status is shown as follows:

4.4 Basic Commands and Functions

Command Keys	Function
(%)	 Power ON: Hold for 3 seconds initially. Power OFF: Tap on home screen. Lock/Unlock: Hold for 3 seconds. Note: The auto lock function will be activated after 2 minutes without any operation.
•	 Activate BOOST mode: Tap. Exit BOOST mode: Hold for 3 seconds
(°/©)	 Start setting process/ Start calibration process/ Go to next step: Tap Back to home screen: Hold for 3 seconds

4.4.1 Start Up/ First-time Initialization

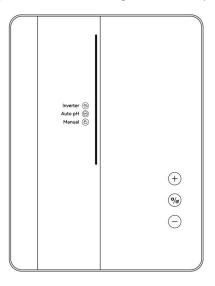
When switching on the control unit for the first time or right after restoring factory settings, the pad screen operation follows the initialization process.



1) Chlorine Production Mode Selection

- The default mode 😁 Inverter / ⊕ Auto pH / ᠿ Manual start to blink;
- Tap (+) or (-) to select chlorine production modes;
- Tap

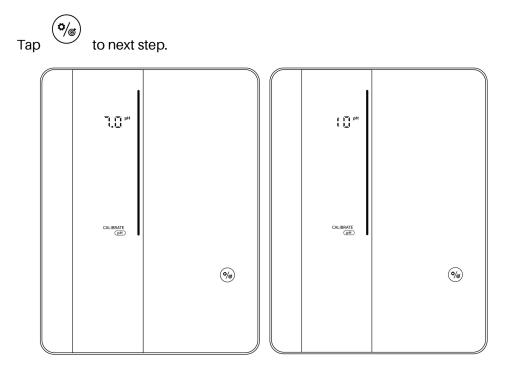
to confirm your selection, and go to next step.



- 2 pH 7.0 & pH 10.0 Calibration (Premium/Medium)
 - When the digit display "pH 7.0" and red LED indicator are blinking on the pad screen, place pH probe into the PH 7.0 buffer solution, make sure the head of the probe is totally soaked.
 - Calibration completes when the beeper sounds, and LED indicator turned green.

(°/@)

- Tap to next step, pH 10.0 calibration. (Remember to clean the pH probe before pH 10.0 calibration).
- The entire process of pH 10.0 calibration is the same with pH 7.0 calibration.



NOTE:

- This step can also be skipped by tapping the setting button
- If the pH probe stayed unsoaked by the buffer solution within 30 seconds or soaked in wrong solution, the LED indicator would keep blinking red until the probe is handled properly.

¤/ø

• Before calibrating or replacing the probe, the valve of the electrolytic cell needs to be turned off to avoid leakage.

③ ORP Calibration (Only Premium)

- On the processing screen, the default digit display "ORP 468 mV" and Red LED indicator are blinking.
- Place ORP probe into 468mV buffer solution, make sure the head of the probe is totally soaked.
- Calibration completes when the beeper sounds, and LED indicator turned green.



to next step.

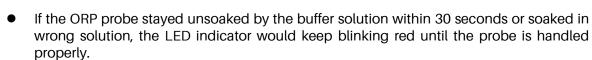
CALIBRATE ORP	
	(+) (%)

NOTE:

• ORP calibration values range from 200-600, step size is 1. Hold the button can accelerate the tuning speed.

°/@)

• This step can also be skipped by tapping



(4) Pool Volume Setting

- The default digit display on the pad screen is "SIZE 30 m³" as follows.
- When the number "30" is blinking, it can be tuned from 5 to 150 m³, in increments of 5,

by tapping (+) or (-). Holding the button can accelerate the tuning speed.

• Tap (*) to next step.

5 Local Time Setting

- When the local time is blinking, set hours of the local time by tapping a save the parameter by tapping, then set and save minutes in the same way.
- Tap to next step.

6 pH Setpoint Setting (Premium/Medium)

- The default digit display on the pad screen is "7.2".
- When the number "7.2" is blinking, it can be tuned from 6.5 to 8.5, in increments of 0.1, by tapping ⁺ or ⁻. Hold the button can accelerate the tuning speed.
- Tap to confirm and enter next step.

(7) ORP Setpoint Setting (Only Premium)

- The default digit display on the pad screen is "700mV".
- When the number "700" is blinking, it can be tuned from 200 to 990 mV, in increments of 1, by tapping ⁺ or ⁻. Hold the button can accelerate the tuning speed.
- Confirm the ORP setpoint setting by tapping , and enter the next step: pH Setpoint setting.

8 Chlorine Production (Auto pH Mode/Manual Mode)

- The default digit display on the pad screen is "100%".
- When the number "100" is blinking, it can be tuned from 100 to 0, in increments of 5, by tapping ⁺ or ⁻. Hold the button can accelerate the tuning speed.

- (°/@
- Tap to confirm and enter next step.

(9) pH Dosing Volume Setting (Only Manual Mode)

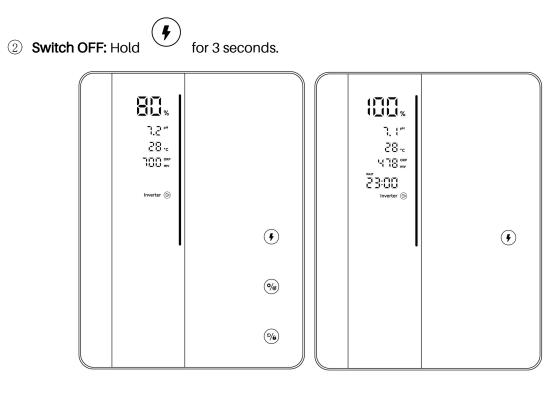
- The default digit display on the pad screen is "50 mL/day".
- When the number "50" is blinking, it can be tuned from 0 to 9990, in increments of 10, by tapping ⁺ or ⁻. Hold the button can accelerate the tuning speed.
- Tap to confirm and enter next step.

10 Timer Setting

- When **TIMER ON** and **1** lights up, set hours of the first timer by tapping ⁽⁺⁾ and ⁽⁻⁾, save the parameter by tapping ^(*), then set and save minutes in the same way.
- When **TIMER ON** setting finished, **TIMER OFF** light up, set the end time of the first timer in the same way.
- When **1** vanishes and **2** lights up, set the start and end time of the second timer the same as mentioned above.
- Tapping () to Confirm Timers setting and return to home screen.

4.4.2 BOOST Performance

① **Switch ON:** Tap to enter Boost mode, the device will run at 100% power for 24 hours. The real-time production and Boost countdown will be displayed as follows



Production Speed Display

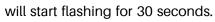
Countdown Display

NOTE:

- BOOST mode is suggested to be activated when chlorine is urgently needed.
- BOOST mode cannot be activated When **O** or **A** lights up.
 - While BOOST mode is on, the

is deactivated.

- If the chlorinator is powered off with BOOST mode turned on, the BOOST countdown refreshes when the chlorinator is turned on again.
- When the BOOST mode terminates or stops, production continues according to the previous settings.
- If ORP value is lower than 500mV, the Boost switch
 Then it stays lit when no remedial action is detected.

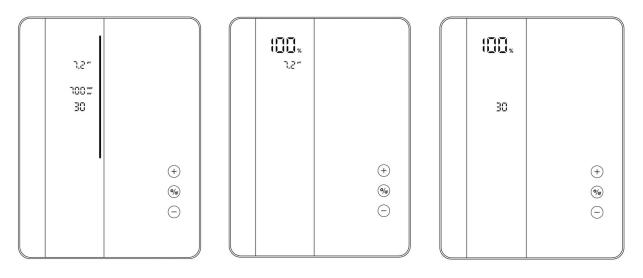


• In Boost mode, when the ORP is higher than the set value, frequency reduction will not occur.

4.4.3 Settings

Tap Setting to enter settings in accordance with following order:

- 1) pH Target Setting: range 6.5-8.5 (Inverter Mode / Auto pH Mode)
- 2) ORP Target Value setting: range 200-990mV (Inverter Mode) Suggested ORP Winter setting: ORP 650mV;
 Suggested ORP summer setting:ORP700mV;
 Summer (max load) setting:750mV-800mV;
- 3) Chlorine Production: range 0-100% (Auto pH Mode / Manual Mode);
- 4) pH Dosing Volume Setting: range 0-9990 mL/day (Only Manual Mode)
 Hydrochloric Acid: ≤12.5% concentration;
- 5) Timers setting: range 0:00-24:00 (24hr clock);



Settings (Inverter Mode)

Settings (Auto pH Mode)

Settings (Manual Mode)

4.4.4 Calibration

and hold for 3 seconds to enter calibration in accordance with following order:

- 1) PH 7.0 and 10.0 Calibration (Inverter Mode / Auto pH Mode)
- 2) ORP Calibration (Inverter Mode)

°/ø

- 3) Pool Volume Setting: range 5-150m³
- 4) Previous local time setting: range 00:00-24:00;
- 5) Tap

Тар

to return home screen;

During the settings and calibration process, all values are set by tapping + and -;

Users can return to home screen at any point by holding \checkmark for 3 seconds, or skip any

step by tapping

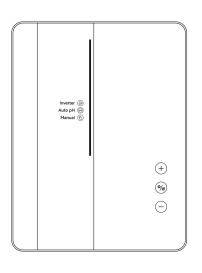
°/ø

4.5 Combination Commands and Operation

Combinations	Function
Hold and for 3 second	Enter chlorine mode selection screen
Tap , then hold + and for 3 second	Restore factory settings
Tap , then hold and to for 3 second	Enter network configuration screen
Tap $()$, then hold the place of + and - for 3 seconds	pH Regulator self-test 10 seconds

4.5.1 Chlorine Mode Selection

Hold and for 3 second on home screen, the chlorine mode selection screen shows as follows.



Tap + or - to choose chlorine production mode. According to different configuration options, the selectable modes4.2.

The icon starts to blink when being selected. Tap screen will return to home automatically.

 $\tilde{\boldsymbol{v}}_{\boldsymbol{\varepsilon}}$ to confirm your selection, then the

4.5.2 Restore Factory Settings

Tap on home screen, hold + and for 3 second, hearing the beeper and the chlorinator is restored factory settings, and automatically start initialization process as follows:

inverter (ອ) Auto pH (ອ) Manual (ලි)	(+) (%) (-)

4.5.3 Network Configuration

- 1 Enter settings screen by tapping on home screen, hold and for 3 second, then constant buzz can be heard.
- ② During network configuration process, the chlorinator is still operating with the previous configuration.
- ③ The beeper stops when network configuration is completed.

5 Salt Replenishment

The chlorinator must remain OFF during this operation and until the additive is completely dissolved. Operating the chlorinator with non-dissolved salt could irreversibly damage the cell and the power supply, and lead to a void of the warranty.

Calculate the volume of the swimming pool and add 3 to 5 Kg of salt per cubic meter. The suggested salinity is 3-5 g/L. Make sure the chlorinator is disconnected during the whole process, and turn on the filtration system to work for at least 24 hours after the operation.

For any new pool builds please wait for four weeks before adding salt into any recently cement coated pool or discuss this with your pool builder.

The salt dissolving process can be accelerated using the pool cleaner. Check the salt concentration is between 3 and 5 kg/m^3 using a kit from a specialized pool shop.

The salt concentration may be reduced over time due to the rain or other periodic freshwater contributions (topping up, backwashing, etc.). Whenever the salt concentration needs to be corrected, pour salt as close as possible to the return lines. Never pour salt in the skimmers or in the drain inlet.

6 Maintenance

6.1 Cleaning the Electrodes

The smart polarity inversion system mentioned in chapter 4, is to prevent the electrode plates from corrosion and scaling (Default setting = 4 hours). However, cleaning may be required when the water hardness is too high.

The cleaning process is listed as follows:

- ① Turn off the chlorinator and the filtering, close the isolation valves, and disconnect the cell power cable.
- ② Place the cell backwards and fill it with a cleaning solution so that the electrode plates are immersed.

Do not allow the cell cap assembly to be immersed.

- ③ Leave the cleaning solution to dissolve the scale deposit for about 15 minutes. Dispose of the cleaning solution at an approved waste recycling site, never pour into the rainwater drainage system or into the sewers.
- ④ Rinse the electrode using clean water and put it back on the cell fixture collar (there is an alignment mark).
- (5) Open the isolation valves and restart the filtering and chlorinator.
- (6) If you do not use a commercially available cleaning solution, you can manufacture it yourself by carefully mixing 1 volume of hydrochloric acid with 9 volumes of water (Warning: always pour the acid into the water and not the opposite and wear suitable protective equipment!).
- 1 Make sure that the setting of the polarity inversion cycles is adapted to the pool water hardness.

6.2 Maintenance of the ORP Probe (Only Premium)

6.2.1 Cleaning the Probe

Under any circumstance, every 6 months cleaning is always advisable. Generally, impurities and grease caught on electrodes may also result in measurement errors. The cleaning steps are as follows:

1 Turn of the chlorinator, unscrew the ORP probe from the holder.

- 2 Thoroughly clean the probe in pure, preferably distilled water. Shake the probe to remove the water. Use a cotton or a paper napkin if necessary.
- ③ Turn on the control unit, Insert the probe into standard calibration solution (default 468mV) and complete the calibration process.

6.2.2 Storage

In case of pools being shut down during the winter season, take the probe out of the cell and store it at temperature from +5 to +30 °C in the probe storage bin filled with a storage solution. Other storage methods are not recommended.

NOTE: Never leave the probe outside. If the probe has been dry for a time, it can be regenerated

with the standard calibration solution.

6.3 Maintenance of the pH Probe (Premium/Medium)

6.3.1 Maintenance

It is recommended to clean and check the probe every 6 months. Generally impurities and grease caught on electrodes may also result in measurement errors.

The cleaning steps are as follows:

- ① Stir the probe in a glass of water in which a spoonful of detergent has been dissolved.
- 2 Wash it under the tap and leave it for a few hours in a glass of water in which 1 cm3 of hydrochloric acid has been added.
- ③ Thoroughly clean the probe in pure, shake the probe to remove the water. Use a cotton or a paper napkin if necessary.
- ④ Recalibrate the probe again.

6.3.2 Storage

In case of pools being shut down during the winter season, take the probe out of the cell and store it at temperature from +5 to +30 °C in the probe storage bin filled with a storage solution. Other storage methods are not recommended.

NOTE:

- If well maintained, a probe can last for two or three years. When the probe is exposed in air, the original cap should be placed, or it should be submerged in a glass of water.
- If a probe has been left to dry, it can be regenerated by leaving it for 12 hours in a glass
 of water, preferably adding a few drops of hydrochloric acid.

6.4 Maintenance of the Doser (Optional)

6.4.1 Testing

To check the Doser works properly or not, the steps are as follows:

- (1) Tap $\overset{()}{\longrightarrow}$, turn off the Chlorinator (**Power OFF**).
- 2 Hold $\stackrel{(+)}{\longrightarrow}$ and $\stackrel{(-)}{\longrightarrow}$ for 3 seconds, the Doser will rotate for 10s, to check its rotation and sounds.
- ③ Apply lubricant on the inner tube if necessary.

7 Winterizing

The chlorinator has a protective system to limit chlorine production under poor operating conditions such as cold water (winter) or a lack of salt.

Active winterizing = filtering operational in winter:

- Above 10°C: Chlorinator running in preset mode.
- Below 10°C: Chlorinator running, capped at 30%.
- Below 5°C: Electrolytic cell off.

Passive winterizing = lower water level and drained piping: leave the electrode dry in its cell with its isolation valves- open.

8 Wi-Fi Instruction

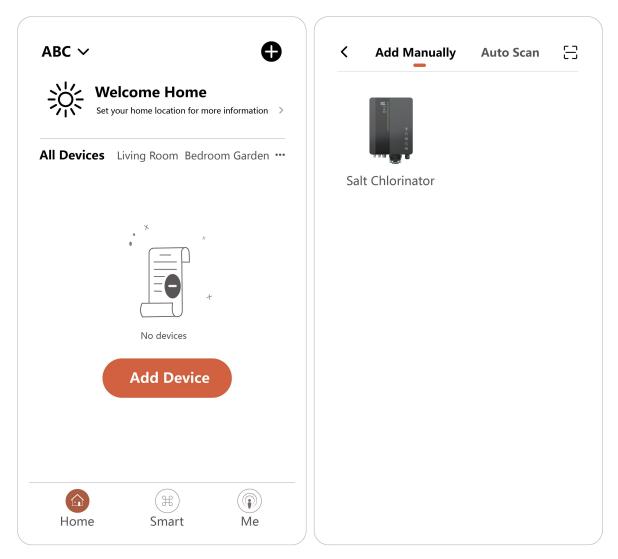
8.1 Start-Up

8.1.1 Download App on Smartphone

"InverGo" app is available on App Store and Google Play.

8.1.2 Networking Configuration

Turn on your location services, Wi-Fi and Bluetooth, enter the "InverGo" app, tap the "+" icon in the top right corner of the home page, and then Tap on "Add Device" to start searching for nearby devices.

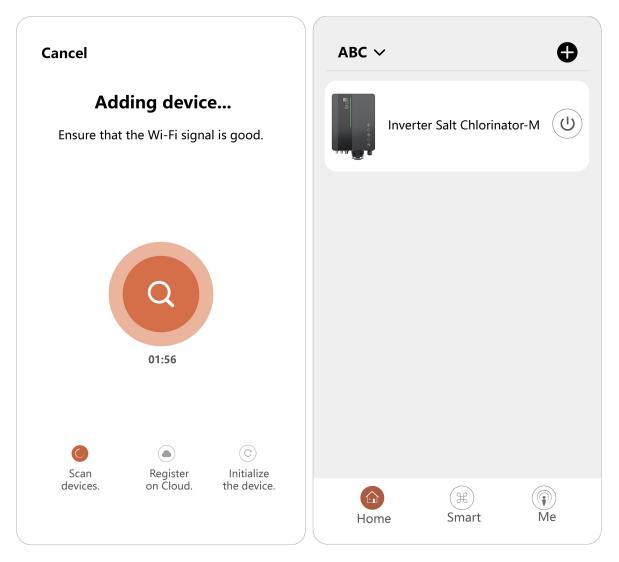


When Control Panel is on regular working, tap to enter settings, hold and for 3 seconds, when an intermittent beep occurs, entering network connection mode. Under network connection mode, Control Unit sounds twice every 2 seconds. The beeper stops when the network is successfully configured.

Enter "InverGo" app, and when your phone finds the Control Unit, it will be displayed on your phone. Tap "Add" and then "+" to add the main device, then enter the name and password of the Wi-Fi that your phone is connecting to, Tap Next".

Cancel	Cancel	EZ Mode 👙
Select 2.4 GHz Wi-Fi Network and enter password. If your Wi-Fi is 5GHz, please set it to be 2.4GHz. Common router setting method	Add Device. Power on the device and confirm thar indicator light blinks rapidly	
 ★ Wi-Fi - 5Ghz ✓ Wi-Fi - 2.4Ghz 	28.5 [°] ⊗	WIFI
중 Keke ≒	Resetting	Devices >
Password Next		ator rapidly blink

"being added" and progress will be shown on the app. The beeper will stop when progress is finished.

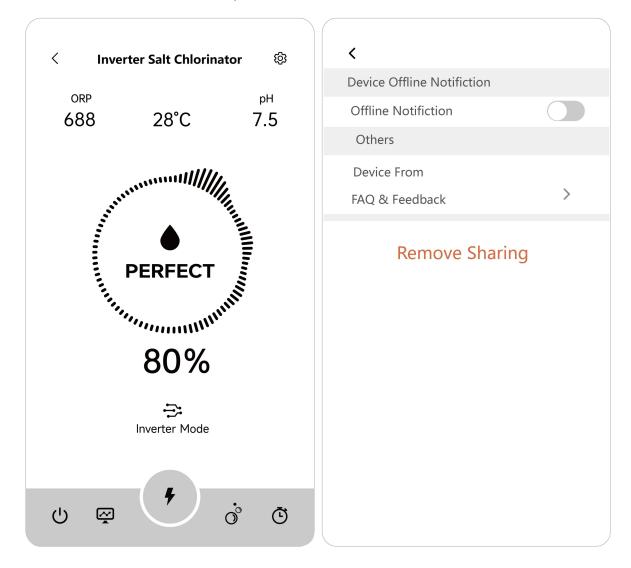


8.2 OTA Upgrade

When upgrade is available, upgrade information will pop up and Tap "Update Now"; Or Tap on the brush icon in the top left corner of the screen to enter the settings screen, and Tap "Device Upgrade" at the bottom to upgrade.

8.3 Device Sharing

Enter the app Settings, tap "Share Device", and add the mobile number of the corresponding person being shared. By downloading the "InverGo" app, the user being shared can view the device's information simultaneously.



9 Error Code and Solution

Error Code	Effect	Trigger	Elimination	Remark
E1: Low TEMP in Cell	Pause electrolysis process	Water temperature detected by temperature sensor is below 5°C.	Automatically resume normal operation, when water temperature rises up to12°C.	Only shows up when temperature sensor is installed.
E2: Control Unit Overheat Protection	Pause electrolysis process	Internal temperature of control unit is over 80°C	Automatically resume normal operation, when the Control Unit is below 70°C.	The installation shall avoid direct sunlight or high moisture, a sheltered area is more suggested.
E3: NO FLOW	Pause electrolysis process	Flow status detected is "OFF"	Automatically resume normal operation, when Flow switch "ON" status is detected.	Insufficient water flow might caused by:1. Filtration pump output.2. Water valve closed3. Other possible reasons.
E4: ORP Setpoint not Reached	Pause electrolysis process	Unable to reach ORP setpoint after long time operation: a. Alarm after 36 hours when pool <90m ³ . b. Alarm after 72 hours when pool ≥90m ³ .	 Restart the chlorinator. Automatically resume normal operation, when setting the ORP setpoints lower than previous reading. 	 Test the chlorine level with other equipment, make sure there's enough chlorine in the pool; Replenish the pool with proper amount of stablizer Add Acid to balance pH; Activate TURBO mode or add extra chlorine to reduce chloramine. Check the cell for scaling or coating loss. Try the following in order: Check ORP probe connection. Clean the probe. Calibrate the probe and test ORP value. Replace the probe
E5: Power Supply Abnormal	Pause electrolysis process	DC output detected is below 1.0V or 0.1A	Automatically resume normal operation, when the DC output recovers back to normal range.	 Check electrodes connection. Check the cell for excessive scaling or coating loss. Please contact the After-Sales Center.

E6: pH Setpoint not Reached	Pause the acid adding process	pH readings failed to reach setpoints. a. Alarm after 24 hours when pool $< 90m^3$. b. Alarm after 48 hours when pool $\ge 90m^3$.	 Restart the chlorinator. Automatically resume normal operation, when setting the pH setpoints equals to previous reading. 	 Test pH with other equipment Balance the pH level by adding extra chemicals. Try the following in order: Check pH probe connections. Clean the probe. Calibrate the probe and test PH again. Replace probe.
E7: Wi-Fi Connection Failure	Network configuration and boost mode are disabled.	Hardware communication error occurs inside the control unit.	Automatically resume normal operation, when hardware communication between the MCB and Wi-Fi module recovers.	 Restart the control unit Restore factory default settings Please contact the After-Sales Center
E8: pH Sensor Failure	pH reading pauses at the latest value, maximum chlorine production is limited to 30% and boost mode is disabled.	Hardware communication error occurs inside the control unit.	Automatically resume normal operation, when hardware communication between the MCB and pH sampling module recovers.	 Restart the control unit Disconnect the power for 10 seconds and re-plug the control unit Restore factory default settings Please contact the After-Sales Center
E9: ORP Sensor Failure	ORP reading pauses at the latest value, maximum chlorine production is limited to 30% and boost mode is disabled.	Hardware communication error occurs inside the control unit.	Automatically resume normal operation, when hardware communication between the MCB and ORP sampling module recovers.	 Restart the control unit Disconnect the power for 10 seconds and re-plug the control unit Restore factory default settings Please contact the After-Sales Center
E10 (EA) : Power Module Failure	Pause electrolysis process and boost mode are disabled	Hardware communication error occurs inside the control unit.	Automatically resume normal operation, when hardware communication between the MCB and power module recovers.	 Restart the control unit Disconnect the power for 10 seconds and re-plug the control unit. Factory reset Please contact the After-Sales Center
A1: ACID TANK	Indicators lights up, normal operation continues.	pH setpoints hasn't been reached yet. a. Alarm after 6 hours when pool <90m ³ .	 Restart the chlorinator. Automatically resume normal operation, when setting the pH 	 Replenish the acid tank Check for leakage of the whole dosing system Try the following steps:

		b. Alarm after 12 hours when pool $\ge 90 \text{m}^3$.	setpoints equals to previous reading.	 Check pH probe connections Clean the probe Calibrate the probe and test pH value again Replace probe
A2: ADD SALT	Indicators lights up, normal operation continues.	Pool salinity detected is below 2000ppm	Automatically resume normal operation, when salinity the higher than minimum threshold.	 Replenish the salt up to recommended level(3000-3500ppm). Check the water temperature. Check the cell for excessive scaling or coating loss.
A3: REPLACE SENSOR	Indicators lights up, normal operation continues.	ORP/pH readings beyond the tolerance range during calibration process, leading to calibration unfinished.	 Restart the chlorinator and then skip the calibration process. Finish calibration process successfully. 	 Clean the probe and finish calibration process successfully. Replace the probe and finish calibration process successfully.
A4: CALIBRATE SENSOR	Indicators lights up, normal operation continues.	1. No calibration finished for more than 3 months	 Restarting the chlorinator can turn off the indicator for couple of minutes. Restore factory default settings or finish calibration process successfully. 	

10 After-Sales Support

Important Information for After-Sales Support

To ensure that we can assist you effectively when you contact our after-sales service, please hav e the following information ready:

Product Information

- Serial Number (located on the nameplate)
- **Device Virtual ID** (available in the InverGo app)
- Device Model

Problem Description

- Error Code Display
- Device Readings and Production Status
- Frequency and Timing of Issues

Usage Environment

- Pool Size, Indoor/Outdoor
- o Actual Salinity and ORP, pH, Free CI Levels
- Water Flow and Filtration Time

Providing this information will help us resolve your issue more efficiently. Thank you!

AQC000-MO-V2.0