**⚠ WARNING****THIS PRODUCT CONTAINS A BUTTON BATTERY**

If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours.

Keep batteries out of reach of children.

If you think batteries may have been swallowed or placed inside any part of the body, seek immediate medical attention.

Halo® pH and Gold Chlorine ORP Sensors

⚠ WARNING

FOR YOUR SAFETY - This product must be installed in accordance with any local applicable regulations. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation will void the warranty.

Improper installation and/or operation can create unwanted electrical hazard which can cause serious injury, property damage, or death.

Section 1. Installation

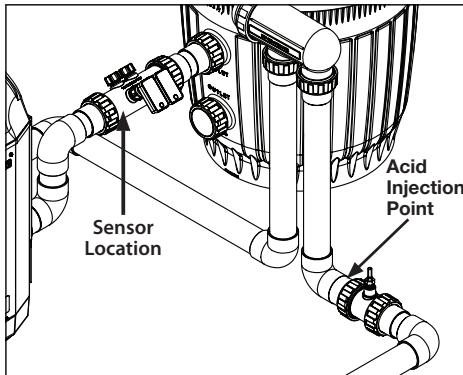
Halo Chlorinators can communicate to a pH sensor and a Gold Chlorine ORP sensor. (As ORP is dependent on pH, a Gold Chlorine sensor can only be installed if a pH sensor and acid dosing pump are installed)

Halo pH and Gold Chlorine ORP Sensors are mounted into a sensor mounting chamber. The sensor chamber should be installed on a horizontal section of pipe after the pump and preferably before any heating system. They must always be installed prior to the chlorinator cell

NOTE: Ensure that the Chlorinator cell cable or any other electrical cable does not contact the sensors or sensor chamber.

The sensors are wireless and communicate via Bluetooth to the Halo Chlorinator, so must be located within 5 m of the Halo Chlorinator power supply.

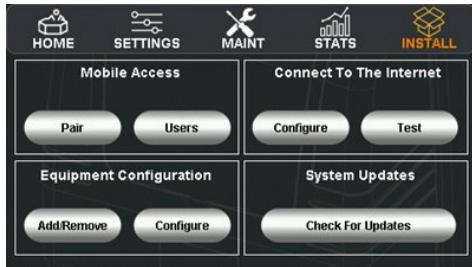
When a doser pump is being installed, the acid injection point (where the acid goes into the pool water) must be mounted into the pipework, after the chlorine cell and all other equipment. Ideally the chamber should be mounted as far away as possible, downstream from the Chlorinator cell.



1.1 Configuring the Halo Chlorinator to use pH and Gold Chlorine ORP sensors

From the "Home" screen of the Halo Chlorinator, press the "Settings" icon  and then press the "Install" icon to display the Install page.

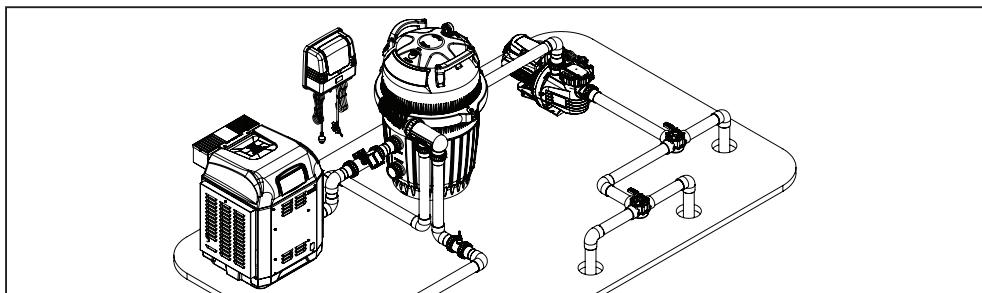
Press the "Add/Remove" button and select "pH Sensor".



To pair the sensor to the Halo Chlorinator, press the round button (on the sensor label) under "Press to Pair".



If a pH sensor and an acid dosing pump have been configured (See acid dosing pump instructions), then a Gold Chlorine ORP sensor can also be paired to the Halo Chlorinator using the "Add/Remove" button and choosing "ORP Sensor".

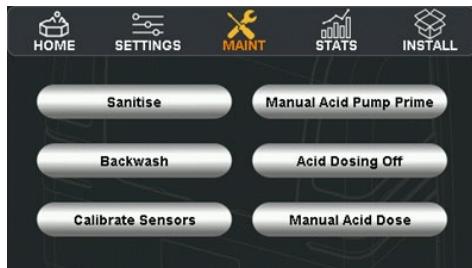


1.2 Calibrating pH and Gold Chlorine ORP sensors

The pH and Chlorine sensors may require periodic calibration.

From the "Home" screen of the Halo Chlorinator, press the settings icon  and then press the "Maint" icon to display the maintenance page.

Press the "Calibrate Sensors" button to enter the calibration mode.



Within the calibration screen there is an option to "Run the pump during calibration".

- If the sensors are still in place in the pool pipework, then the pump should be run during calibration. To ensure that the pool water is thoroughly mixed, it is advisable to run the filter pump for at least an hour before performing a calibration.

NOTE: See note on ORP calibration below.

- If the sensors have been removed and placed into calibration fluid, then the pump should not be run during calibration.

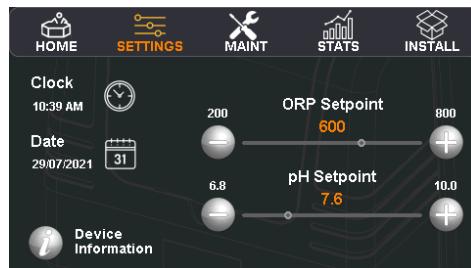
For pH sensors, if you notice that your pH measurement is slightly different from your Pool Shops (or a test strip etc) measurement then you can use the "Run the pump during calibration" option and adjust the sensor reading up or down to match the other reading. (Alternatively, you can choose to not run the pump during calibration and use pH calibration fluid to calibrate the pH sensor. Calibration fluid is available from AstralPool® dealers.)

For ORP sensors, the differences in pool chemistry (salt level, pH, cyanuric acid "stabiliser", hardness, etc.) makes comparisons between the ORP level and measured free chlorine (chlorine ppm) levels extremely difficult. Because of this, calibrating the ORP sensor using the pool water is of little value, so if you wish to calibrate (or check the performance) of the ORP sensor then the "Run the pump during calibration" option should not be used and the ORP sensor should be removed from the pipework and calibrated using calibration fluid. (Calibration fluid is available from AstralPool dealers.)

Section 2. User Manual

Halo pH and Gold Chlorine ORP sensors are designed to help keep your pool water in balance, however regular water tests (preferably from your local pool shop) should be conducted and compared to the sensor measurements and adjustments made accordingly.

From the "Home" screen of the Halo Chlorinator, press the "Settings" icon  and then press the "Settings" icon, in the top ribbon, to display the Settings page. Here you can change your setpoints to suit the needs of your pool. For the best results for your chlorine levels changes to ORP should only be made in conjunction with water test results. For more information consult your pool care professional.



2.1 Gold Chlorine ORP sensors

Generally, an ORP level of 700 is a good starting point. When the pool is first installed, it is advisable to take weekly measurements of free chlorine. If the free chlorine level is too low, increase the ORP set point (reduce the setpoint to reduce the free chlorine). When making adjustments it is advisable to make small changes (e.g. 700-715) and then wait 2 or 3 days before retesting the free chlorine.

It is also advisable to check that the filter pump is running for enough time to allow for chlorine generation. From the "Home" screen of the Halo Chlorinator, press the "Settings" icon  and then press the "Stats" icon in the top ribbon to display the "Stats" page. On this page the "% Cell Output" shows the percentage of time that the cell is operating at full capacity. If this figure is above 80%, it is advisable to increase the filter pump run time. (Similarly, in the off season, this figure can be used to allow you to reduce the filter pump run time, however you also need to allow enough time to filter out debris and skim leaves, etc.)

The display of chlorine is "Low", "OK" or "High" is based on how far the ORP is from the setpoint, so the water analysis could show that the free chlorine level is low whilst the chlorinator is showing chlorine is OK, if this is the case, the ORP setpoint should still be adjusted in small steps as above.

WARRANTY REGISTRATION	<p>Record your equipment details here for quick reference:</p> <p>Model No. : _____</p> <p>Serial No. : _____</p>
	<p>AUSTRALIA WARRANTY:</p> <p>For full warranty terms and conditions and to register your warranty, visit www.astralpool.com.au/warranty and complete your details.</p> <p>◀ Or scan the QR code to go directly to the registration page.</p>
	<p>NEW ZEALAND WARRANTY:</p> <p>For full warranty terms and conditions and to register your warranty, visit www.astralpool.co.nz/warranty and complete your details.</p> <p>◀ Or scan the QR code to go directly to the registration page.</p>

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