

# Digital Quick Reference Guide

**DANGER**

Risk of electrical shock. Disconnect all power to pool equipment prior to installing or removing AutoPilot cell. Always use care when working with high voltage wires.

Upon initial start up of your Digital System, test and adjust the water chemistry and salt level. Contact AutoPilot Systems if an Owners Manual is needed.

## Water Chemistry Recommendations:

**Chlorine:** 1 – 3 ppm  
**pH:** 7.2 – 7.8

**Total Alkalinity:** 80 – 120 ppm  
**Salt:** 2500 – 3500 ppm (ideal=3000ppm)

**Cyanuric Acid:** 60 – 80 ppm  
**Calcium Hardness:** 200 – 400 ppm

## Normal Display:

<b>Purifier Output level:</b>	In 1% increments, from 0% to 100%
<b>Time of Day:</b>	In 12 or 24-hour display
<b>Water Temperature:</b>	In Fahrenheit or Celsius
<b>Cell Status:</b>	ON or OFF
<b>Small Dot (after Cell Status):</b>	Alternates with polarity direction
<b>Check System Light:</b>	OFF

## Up and Down Arrow:

Used to control purifier output level or to view and program menu options. After the purifier output level is set, automatic adjustments will be made as the water temperature fluctuates.

## Boost Mode:

The Boost button increases output to 100% and overrides the internal timer for the selected boost period.

24 Hour Boost	=	Press Boost once
72 Hour Boost	=	Press and hold Boost for 8 seconds
Deactivate Boost	=	Press Boost a second time

## Select Button:

Activates only with Menu mode and allows the operator to select/program menu options.

## Pump Button:

**Note:** Not applicable with "EXTERNAL TIMER" or "Jandy, controlled" configuration.

- Temporarily overrides the pump timer to turn the pump on (▲-Start Pump) or off (▼-Stop Pump)
- Manually turns pump off (▼ - Maintenance), indicated by the display "PUMP OFF FOR SERVICE".

Note: In maintenance mode, the pump is prevented from restarting and is only reactivated by manually overriding this mode by pressing the PUMP button and Arrow up (▲ - End Maint.).

## Pool Pilot when controlled by Jandy :

See "Maintenance Menu" to enable /disable Jandy Operation. The purifier output cannot be adjusted by the Arrow buttons or the Boost button when controlled by the Jandy unit. All adjustments are made on the Jandy panel. Pool Pilot will maintain purification output at last level set by Jandy if Jandy is turned off.

## Programming

Press **MENU** to enter this mode, then use the **Arrow Up** or **Arrow Down** and **SELECT** button to make selections/changes.

**Test Pool Pilot** – test mode automatically scrolls through the fields indicated. Salt Level  $\blacksquare$  Amount of salt needed to maintain 3000 ppm  $\blacksquare$  Water Temperature Cell Volts and Cell Amps  $\blacksquare$  Back to Normal Operation  $\blacksquare$

**Owner Options** – primary mode for basic program changes. Select Units (English/Metric)  $\blacksquare$  Temperature (Fahrenheit / Celsius)  $\blacksquare$  12/24-hr time  $\blacksquare$  Set Time of Day  $\blacksquare$  Pump Program #1 / #2 (Internal Time Clock controlled only)  $\blacksquare$  Back to Main Menu  $\blacksquare$

### See Owner's Manual for Maintenance Menu and Installer Menu

**Cleaning the Cell:** Perform this if the cell has mineral deposits/scale or debris on the internal blades.  
**CAUTION:** Turn electrical service and pump off first! Remove cell from manifold. Do NOT use any tools to remove scale or you may damage the blade coating and void your warranty. Spray cell with jet stream hose nozzle. If scale remains, soak cell in a plastic bucket with a 4:1 water to muriatic acid mix for 20 minutes. Repeat as needed. **CAUTION:** To avoid damaging splash-out always add acid to water, never the opposite. Wash the cell's 2 (or 3) electric terminals thoroughly with clean water to remove all acid residue. Dry the terminals completely and reinstall the cell in the manifold.

## Quick Troubleshooting Guide

Display Message	Problem	Solution
Purifier OFF! Check Flow	Chlorine generation has stopped due to poor water flow.	Check valve positions. Check or clean skimmer basket, pump basket, filter, manifold screen or cell.
Purifier OFF! Add Salt xxx lbs.	Chlorine generation has stopped due to low salt.	Raise salt from below unacceptable level of 2000ppm. Add salt as indicated to bring the salt level up to 3000ppm
Warning! Add Salt xxx lbs.	Salt level is low.	Add salt as indicated to bring the salt level from below 2500ppm to 3000ppm.
Warning! Low Amps-Cell?	Cell is not receiving the expected Amps.	Enter "Test Pool Pilot" mode through the menu. Write down the volts, amps, temperature and salt level. <ul style="list-style-type: none"> <li>• If the volts are 28-29, then the problem is usually caused by low salt, improperly connected or loose cell cord, water less than 65°F, a scaled cell, or cell near end of life. Correct as appropriate.</li> <li>• If the amps are lower than the Cell Power rating and the volts are less than 25, then have the installer/electrician verify that the incoming voltage matches to the Digital voltage wiring. Installer: Verify unit is configured for proper AC voltage.</li> </ul>
Warning! Check/Clean Cell		
Warning! Bad Temp Sensor?	Temperature is out of range.	Check the Trisensor cable at both ends to make sure it is not disconnected or loose. Remove the cable at the Trisensor and verify that the pins are not bent. Otherwise, contact AutoPilot for assistance