

Remote Display
for
AQUA LOGIC
Automation and Chlorination



(model AQL-REMOTE-PS-8 shown above)

Installation/Operation Manual

for model

AQL-REMOTE-PS-4
AQ-REMOTE-PS-8

GOLDLINE
CONTROLS INC.

www.goldlinecontrols.com

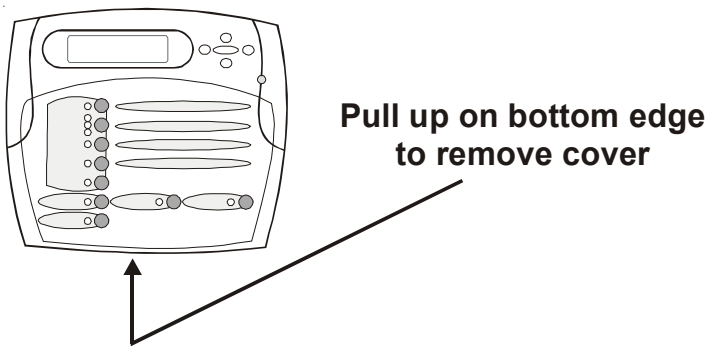
COMPATIBILITY: This display/keypad is compatible with all Aqua Logic-PS-8 systems and PS-4 systems running main software r2.00 or higher.

INSTALLATION

Mounting

The AQL-REMOTE-PS-4/8 Aqua Logic Remote Display/Keypad must be mounted indoors or in a weather protected area (rain should never hit the display/keypad). Up to 3 remote display/keypads can be installed. The display/keypad is designed to mount onto a standard electrical utility box (same size as used for a triple light switch) or can be mounted directly onto any wall surface. When selecting a location, note that the wire to the Aqua Logic main unit must be less than 500 feet long. Follow the steps below:

1. Remove display/keypad baseplate from the cover by lifting up on the cover at the lower end of the keypad as shown below.



2. Screw the baseplate in the desired position (screws supplied by installer).

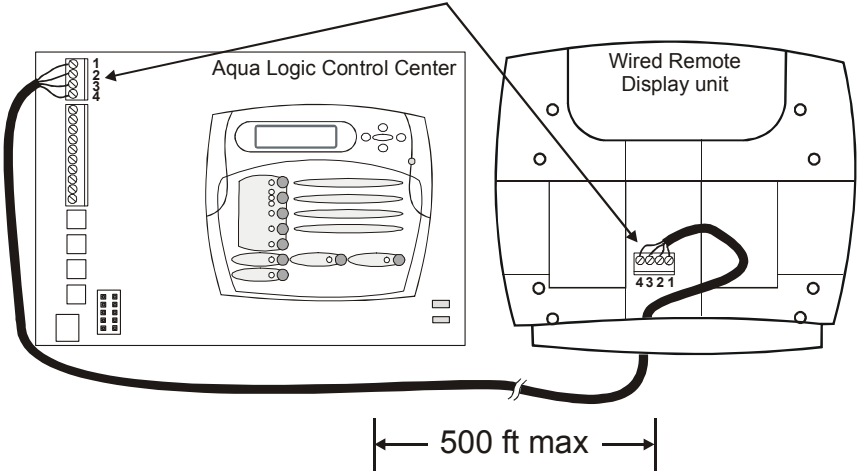
Wiring

The Aqua Logic main unit can connect to a maximum of 3 remote display/keypads.

Use four conductor cable (typically phone cable) to connect the remote display/keypad with the Aqua Logic Control Center as shown on page 2. The maximum wiring distance is 500ft. (160m). Note that the terminals on both the Aqua Logic main unit and the remote display/keypad are numbered: Connect 1 to 1, 2 to 2, etc. Refer to diagram on the top of the following page.

If multiple remote display/keypads are installed: Never connect more than 2 wires to any terminal block. Two remotes can be wired back to the Aqua Logic main unit or the second display/keypad (and third, if applicable) can be “daisy chained” with one display/keypad wired to the next. The maximum wire run from the Aqua Logic main unit to the furthest remote display/keypad is 500 ft. (160m).

Connect screw terminals
"1" to "1", "2" to "2", etc.



OPERATION

When power is turned on, all the LED indicators will flash briefly, the display back-light will illuminate, and the following display will appear for a short period of time:

Goldline Aqua Logic
Display r3.00

The "r3.00" is the software revision level. The actual revision level for your display/keypad may be different.

Refer to the Aqua Logic Operation Manual for complete operating instructions.

TROUBLESHOOTING

- 1. Display/keypad not functioning (no display, no LEDs illuminated)**

If the display/keypad located on the main unit is working correctly, the most likely cause is that wires 1 and 4 are either open circuited or reversed. Check wiring. If none of the displays are working, check that 120V power is being applied to the main control and that the 3A fuse (violet) is not blown.
- 2. Display backlight turns off after a period of time**

The display backlight should always illuminate when you press any key on the unit. If it turns off after a period of time, you can stop this by pressing the menu key (possibly multiple times) until "Settings Menu" appears. Next press the "<" or ">" key (possibly multiple times) until "Display Light" appears. At this point, pressing either "+" or "-" will allow you to select either "Always On" or "On for 60 sec.". After you have selected the desired operation, press the "Menu" button to lock in your setting. Note that this selection applies to this display/keypad only. Repeat the process of each display/keypad in the system.
- 3. Display backlight always on**

The display backlight should always illuminate when you press any key on the unit. If it remains on after 60 seconds have elapsed since the last button push, you can stop this by pressing the menu key (possibly multiple times) until "Settings Menu" appears. Next press the "<" or ">" key (possibly multiple times) until "Display Light" appears. At this point, pressing either "+" or "-" will allow you to select either "Always On" or "On for 60 sec.". After you have selected the desired operation, press the "Menu" button to lock in your setting. Note that this selection applies to this display/keypad only. Repeat the process for each display/keypad in the system.

- 4.**

Communication Err 1 call 888-921-7665
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The display/keypad received data from an Aqua Logic-P-4 system or an Aqua Logic-PS-4 system running software earlier than r2.00. This keypad is not compatible with these Aqua Logic systems. Another cause for this problem may be that the local display/keypad in the main Aqua Logic control unit is not connected or not functioning. If this is the case, connect and/or replace the local display/keypad and then cycle power to the Aqua Logic off and then back on to reset the system. Call the Goldline Tech support department (Monday through Friday, from 8AM to 8PM eastern time) for further assistance.

- 5.**

Communication Err 2 call 888-921-7665
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The display/keypad is not receiving any communication from the Aqua Logic main control unit. The most likely cause of this problem is a broken wire or "open circuit" in wires "2" and/or "3" in the cable between the display/keypad and the Aqua Logic main control unit. If you are unable to find the problem, contact the Goldline Tech support department Monday through Friday, from 8AM to 8PM eastern time.

6.

Communication Err 3
call 888-921-7665

The display/keypad is receiving data from the main Aqua Logic control unit however that data contains errors and is unusable. The most likely cause of this problem is that wires "2" and "3" in the cable between the control unit and the display/keypad are crossed. If you are unable to find the problem, contact the Goldline Tech support department Monday through Friday, from 8AM to 8PM eastern time.

7.

Display Error 1
call 888-921-7665

Display Error 2
call 888-921-7665

An internal problem has occurred in the display/keypad. Remove the display/keypad from the wall mount base (see diagram on page 1) and write down the model number and serial number of the display/keypad. Next, call the Goldline Tech support department (Monday through Friday, from 8AM to 8PM eastern time) to find out how to obtain a replacement display/keypad.

Limited Warranty Pool Automation & Chlorination Products

1/1/2004

This warranty statement is applicable to all pool automation and chlorination products manufactured by Goldline Controls, Inc. (Goldline) **on or after January 1, 2004**. See the appropriate warranty statement for other Goldline products or for pool automation and chlorination products produced prior to January 1, 2004.

Aqua Rite/Trol/Logic—Residential pools in USA or Canada:

Goldline warrants Aqua Rite, Aqua Trol, and Aqua Logic products (products with Goldline part numbers starting with AQ-RITE-, AQ-TROL-, or AQ-LOGIC-) installed on private, residential swimming pools within the USA or Canada to be free from defects in material or workmanship, under normal use and service for **five years** from date of the initial system installation, provided it is installed in accordance with the Goldline installation instructions and specifications provided with the product. If written proof of the date of the initial system installation is not provided to Goldline, the manufacturing datecode on the Aqua Rite, Aqua Trol, or Aqua Logic electronics unit will be the sole determinant of the date of the initial system installation.

If a product is defective, in workmanship or materials and is removed and returned freight prepaid within three (3) years after the date of the initial system installation, Goldline Controls will, at its option, either repair or replace the defective product and return it freight prepaid. If the defective product is returned freight prepaid to Goldline more than three (3) years but within five (5) years of the date of the initial system installation, Goldline, at its option, will either repair or replace the defective product and will charge sixty percent (60%) of the current list price for such repairs or replacements, plus shipping charges. The costs incurred in removal and/or reinstallation of the product are NOT covered under this warranty.

Aqua Rite/Trol/Logic-- Commercial pools or any pool outside of the USA or Canada:

Goldline warrants Aqua Rite, Aqua Trol, and Aqua Logic products (products with Goldline part numbers starting with AQ-RITE-, AQ-TROL-, or AQ-LOGIC-) installed on commercial pools anywhere or any non-private single family residential pool or any pool outside of the USA or Canada to be free from defects in material or workmanship, under normal use and service for **one year** from date of the initial system installation, provided it is installed in accordance with the Goldline installation instructions and specifications provided with the product. If written proof of the date of the initial system installation is not provided to Goldline, the manufacturing datecode on the Aqua Rite, Aqua Trol, or Aqua Logic electronics unit will be the sole determinant of the date of the initial system installation.

If a product is defective, in workmanship or materials and is removed and returned freight prepaid within one (1) year after the date of the initial system installation, Goldline will, at its option, either repair or replace the defective product and return it freight prepaid. The costs incurred in removal and/or reinstallation of the product are NOT covered under this warranty.

Accessory Products and Replacement parts—any pools, anywhere:

Goldline warrants any replacement parts or accessory products (any pool automation or chlorination product or part with a part number other than AQ-RITE-, AQ-TROL-, or AQ-LOGIC-) to be free from defects in material or workmanship, under normal use and service for **one year** from date of the initial system installation, provided it is installed in accordance with the Goldline installation instructions and specifications provided with the product. If written proof of the date of the initial system installation is not provided to Goldline, the manufacturing datecode on the product or part will be the sole determinant of the date of the initial system installation.

If a product is defective, in workmanship or materials and is removed and returned freight prepaid within one (1) year after the date of the initial system installation, Goldline will, at its option, either repair or replace the defective product and return it freight prepaid. The costs incurred in removal and/or reinstallation of the product are NOT covered under this warranty.

Warranty exclusions:

1. Material supplied or workmanship performed by others in the process of installation
2. Damage resulting from improper installation including installation on pools larger than the product rating.
3. Problems resulting from failure to operate the products in accordance with recommended instructions contained in product's owners manual.
4. Problems resulting from failure to maintain pool water chemistry in accordance with recommended levels.
5. Problems resulting from tampering, accident, abuse, negligence, unauthorized repairs or alterations, fire, flood, lightning, freezing, external water, war, or acts of God.

THE EXPRESS LIMITED WARRANTY ABOVE CONSTITUTES THE ENTIRE WARRANTY OF GOLDLINE CONTROLS, INC. WITH RESPECT TO ITS POOL AUTOMATION AND CHLORINATION PRODUCTS AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL GOLDLINE CONTROLS, INC. BE RESPONSIBLE FOR ANY CONSEQUENTIAL, SPECIAL OR INCIDENTAL DAMAGES OF ANY NATURE WHATSOEVER.

NO WHOLESALER, AGENT, DEALER, CONTRACTOR, OR OTHER PERSON IS AUTHORIZED TO GIVE ANY WARRANTY ON BEHALF OF GOLDLINE CONTROLS, INC. THIS WARRANTY IS VOID IF THE PRODUCT HAS BEEN ALTERED IN ANY WAY AFTER LEAVING THE FACTORY.

ELECTROLYTIC CHLORINE GENERATOR BASIC POOL MAINTENANCE REQUIREMENTS

	TEST	IDEAL RANGE	ADJUSTMENT REQUIRED
WEEKLY	Free Chlorine	1.0 - 3.0 ppm	Turn output dial up to increase, down to decrease -OR- increase or decrease pump filtration time.
	pH	7.2 - 7.6	Too high - add muriatic acid Too low - add soda ash.
MONTHLY	Alkalinity	80 - 120 ppm	Add baking soda to increase. Add acid as required to decrease.
	Salt	2700 - 3400 ppm	Add salt as required to increase.
QUARTERLY	Stabilizer	60 - 80 ppm	Add cyanuric acid to increase.
	Calcium	200 - 400 ppm	Add calcium to increase. Drain and add water to decrease.
	Electrolytic Cell	inspect & clean	Refer to section in manual.

Questions?

Refer to www.goldlinecontrols.com for latest manual revisions, additional information and helpful service. Or, you may visit your local Authorized Aqua Rite Dealer or call 888-921-POOL (7665) for assistance.