

PRIZMA™ Automated Swimming Pool Monitor and Controller



Technician Guide

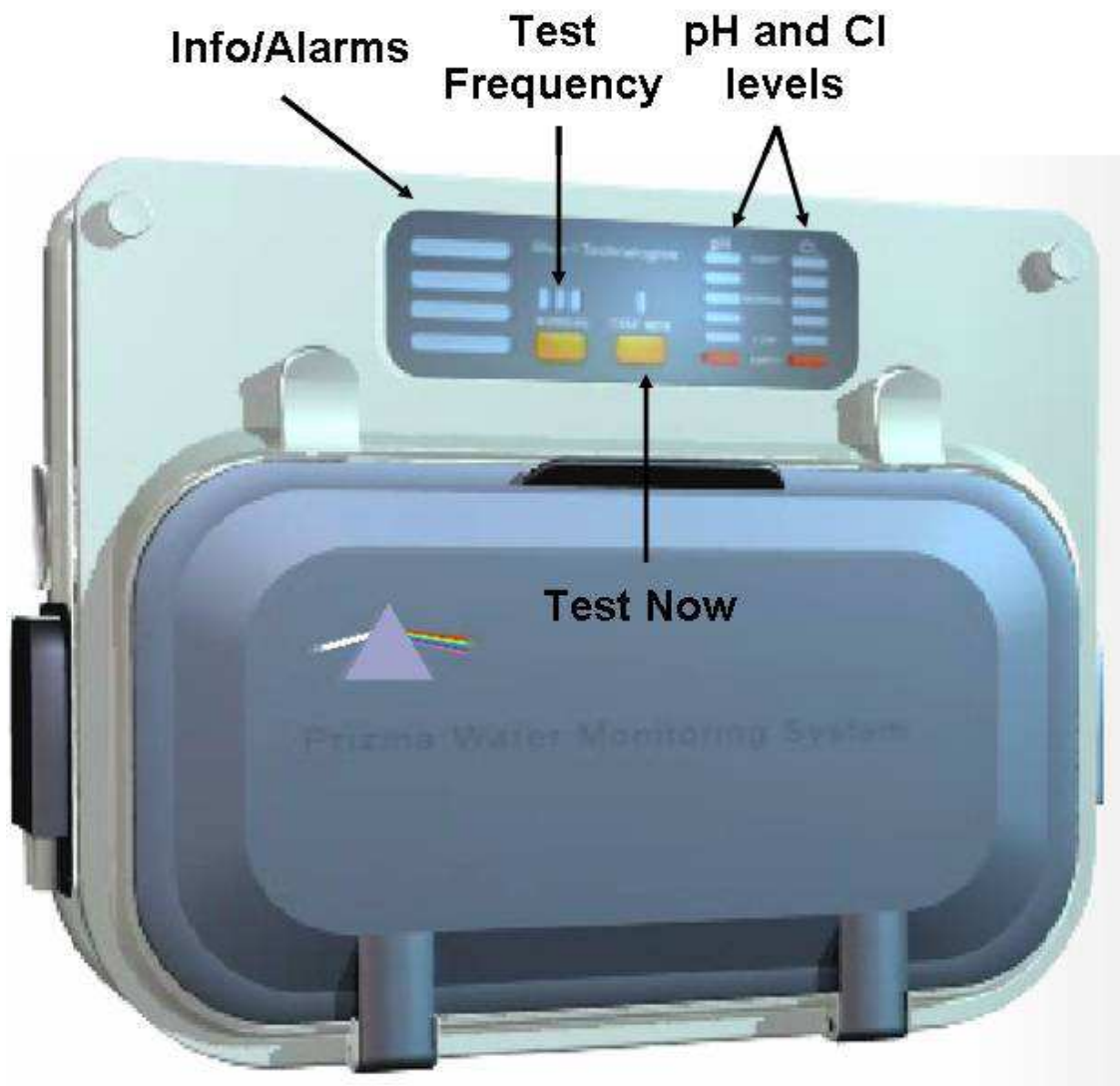
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1. General Overview

The Prizma™ automatic swimming pool controller performs tests for chlorine and pH every few hours. The results of these tests are displayed in a scale of low, normal or high on the front panel. Prizma™ will automatically control chlorine and pH dosing to maintain the pool at optimal levels.



2. Installation

To allow for easier view of the Prizma™ display, it is recommended to install under an overhang.

WARNING: Install Chlorine and pH dosing systems AFTER the heater and other pool equipment.

Note: The distance between the Chlorine and pH injectors should be at least 0.5m.

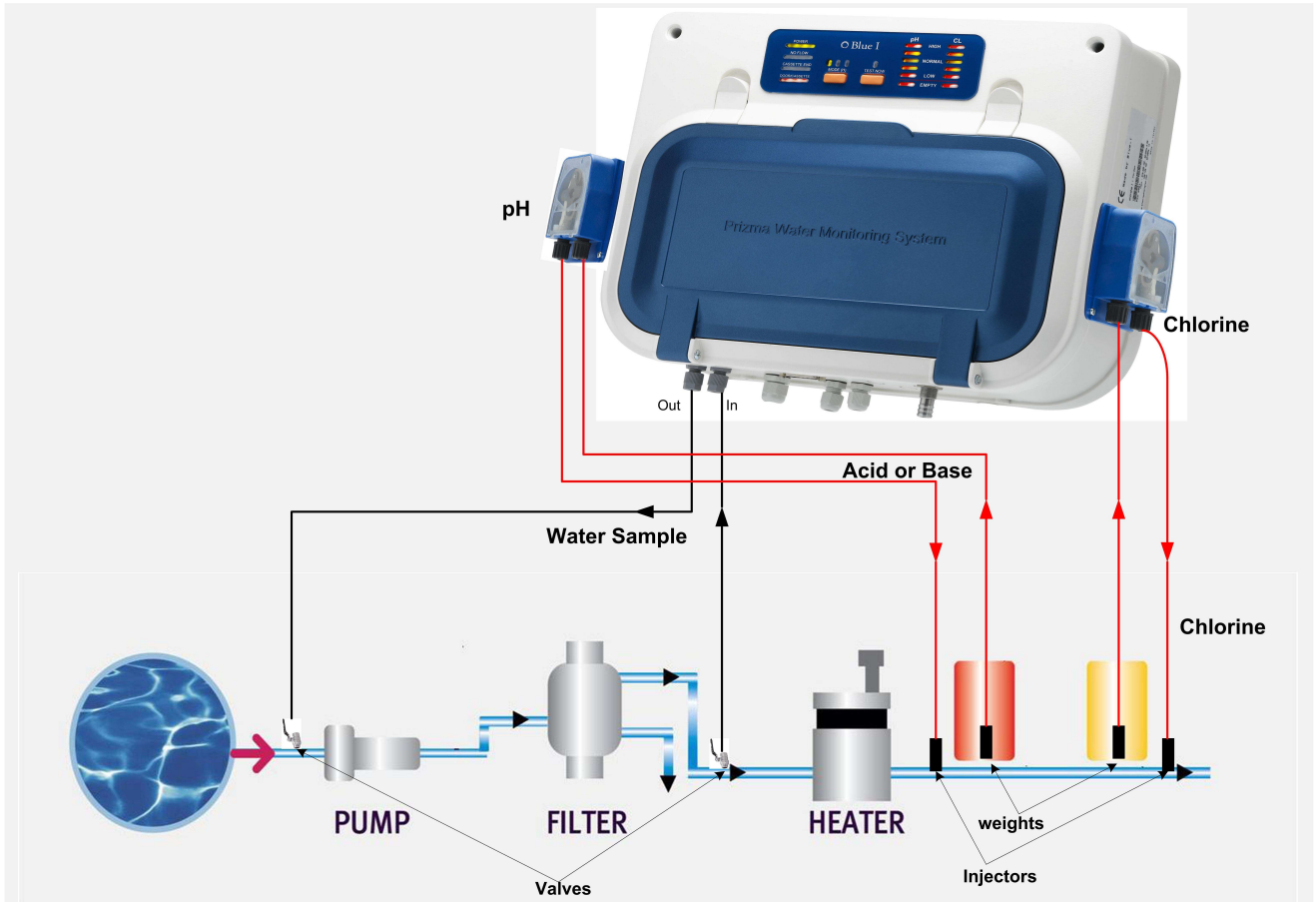


Figure 1: Prizma™ general connection diagram

2.1. Required Components

Supplied with the Controller:

- Prizma™ Hanger
- Tubing to and from Prizma™
 - 15 feet (5m) of 6mm (1/4") provided with controller
- Cassette
- Power cord
 - 4 feet (1.5m) of cord provided without plug
- Prizma™ installation kit

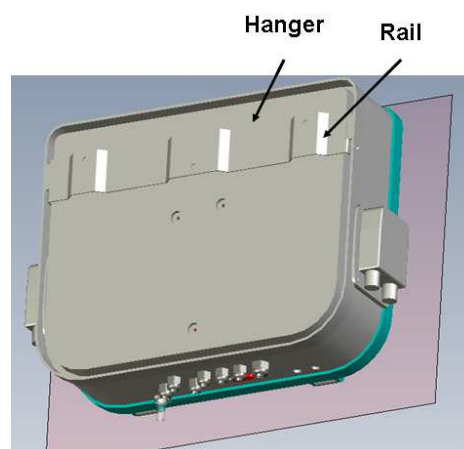
A Remote Programmer will also be required to perform the software set-up (the remote programmer can be used to program multiple Prizma™ controllers)

Every pool is slightly different so please be aware of the pool's plumbing configuration and sizes before installing. The installer will need to supply all additional components to complete the installation. Make sure that you have all required parts on-site including:

- Hardware to attach Prizma™ to wall or other mounting surface
- Plumbing Fittings and Tubing required to supply water to and from the controller
- Plumbing Fittings and Tubing required to inject chemicals to the water
- Electrical components to supply power to the controller
- Electrical components to connect controller to dosing systems

2.2. Basic Installation

1. Mount the Prizma™ hanger on a stable wall or surface preferable at eye level
2. Connect the Prizma™ to the hanger making sure that the rails on the hanger and Prizma™ match.



2.3. Plumbing Installation

2.3.1. Prizma™ Controller

1. Connect the water inlet tube to the pool's circulation system after the filter and before the chemical dosing systems.

Note: If the pressure is greater than 15 psi (1 bar) a pressure reducer will be required.

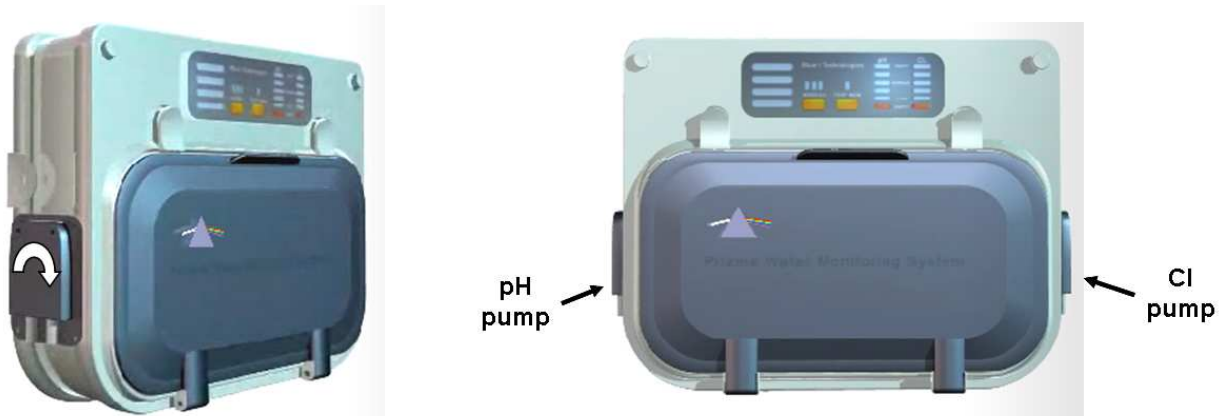
2. Connect the water outlet tube to the pool's circulation system on the suction side of the pump.

Note: A 4 psi (0.25 bar) pressure difference is required between the Prizma's inlet and outlet.

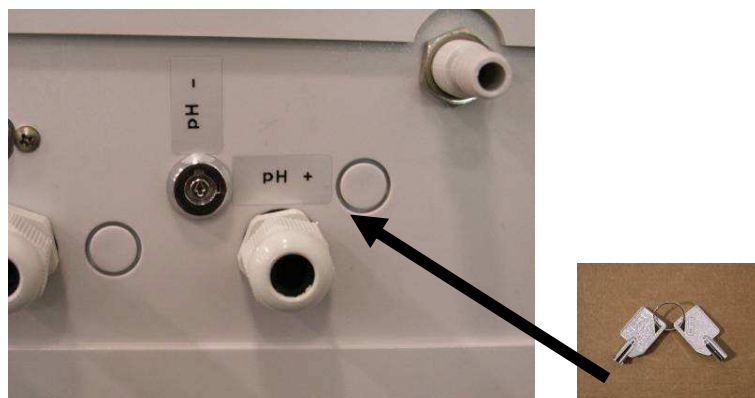
3. Optional: connect a drain line to the sampling drain port

2.3.2. Cl and pH Dosing Systems (Prizma™ Integrated Pumps)

This section applies only to Cl and pH dosing pumps integrated with the Prizma™ controller. For any other chemical dosing systems, refer to the manufacturers' instructions for proper installation.



1. Connect the Cl (Right) Dosing Pump:
 - a. Connect the inlet to the liquid chlorine tank
 - i. Follow the direction arrow on the pump
 - ii. Make sure that the tube from the chlorine tank is weighted/secured to bottom of the tank using the supplied weight.
 - b. Connect the outlet to the pool's circulation system after the filter and heater.
2. Connect the pH (Left) Dosing Pump:
 - a. Connect the inlet to the liquid acid tank
 - i. Follow the direction arrow on the pump
 - ii. Make sure that the tube from the chlorine tank is weighted/secured to bottom of the tank using the supplied weight
 - b. Connect the outlet to the pool's circulation system AFTER the filter and heater.
3. pH (+) and pH (-) setting
 - a. Prizma™ default setting coming with pH (-) control (Acid). The controller is adding acid to balance the pool until reaching the set point.
 - b. pH (+) control can be set by switching the position of the lock (see photo below) on the bottom part of the Prizma™. In that case the controller will add base until reaching the set point. the keys are supplied with the controller (see photo below)



2.4. Electrical Installation

Caution: The Prizma™ comes as either 110-120V AC OR 220-240V AC. Please confirm the required voltage before making any electrical connections.

Caution: Before opening the cover, make sure ALL electrical sources to the Prizma™ are OFF.

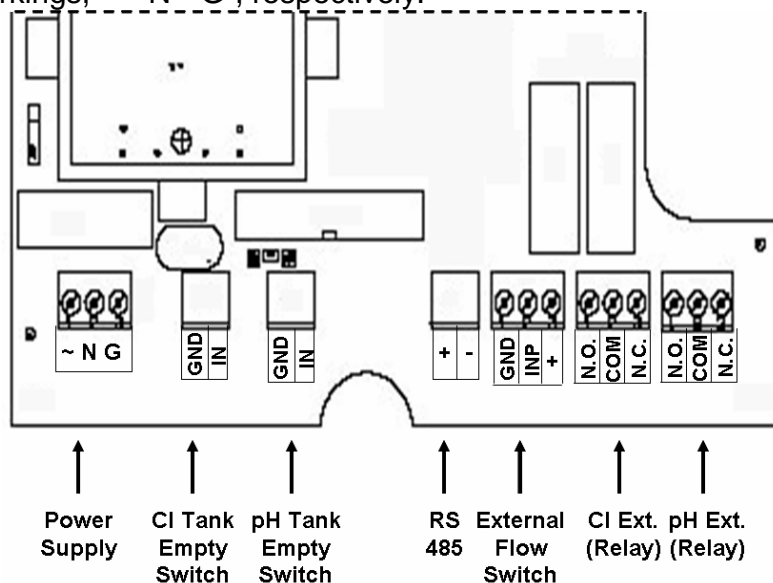
To perform the electrical installation, the front cover will need to be removed (not required if only connecting plug to existing cord):

1. Remove 4 large screws (1 near each corner)
2. Remove 3 small screws (behind cassette door)
3. Gently and evenly pull cover from main controller body

2.4.1. Connecting Main Power

The main power supply to Prizma™ should be interlocked to the pool's main pump. If the pool's main pump does not have power; the Prizma™ should not have power.

1. Connect appropriate plug to the supplied power cord OR
2. Hard-wire power supply to power supply terminal block following the (Line, Neutral, Ground markings, "~" "N" "G", respectively).



2.4.2. Connecting Relays (external dosing systems)

No additional wiring is required for the Prizma™ Integrated Cl and/or pH pumps. This section is for external chlorine and/or pH dosing systems.

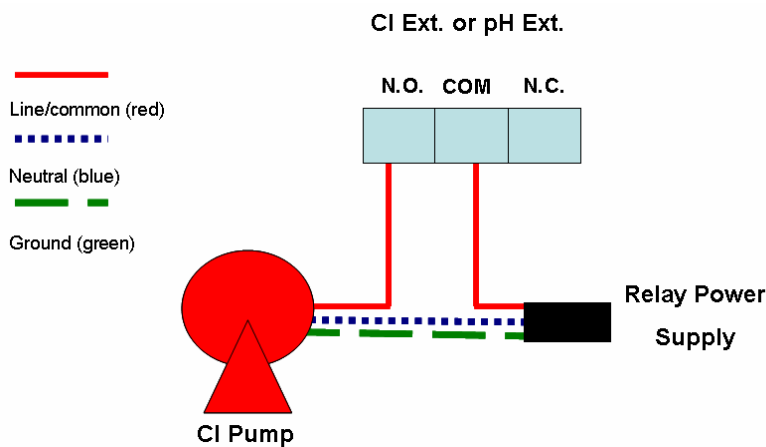
The relays controlling the dosing systems are dry contacts and do not have power. They operate as a switch for the power and only the line (live) wire of the power supply should be connected to the Cl ext. or pH ext. terminal blocks.

1. Connect the earth wire to the ground return wire from each of the controlled dosing systems.
2. Connect the neutral wire to the return wire from each of the controlled dosing systems.
3. Connect the line (live) wire to the connector marked Com of each relay.
4. Connect the line wire from the dosing system to the connector marked N.O. or N.C. as appropriate of each relay.
 - a. N.O. = Normally Open means that the Cl or pH feeder will only receive power when the Prizma™ calls for Cl or pH feed.
 - b. N.C. = Normally Closed means that the Cl or pH feeder will always receive power except when the Prizma™ calls for Cl or pH feed.

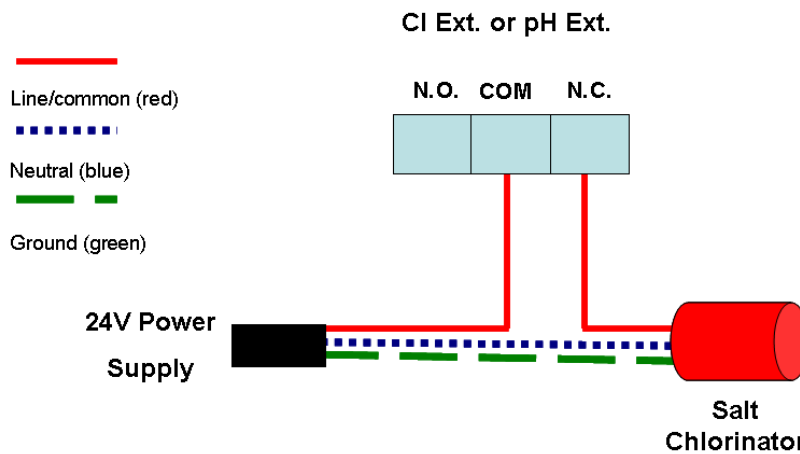
Example Relay Wiring

This section is for general information only and is not intended to fit every possible dosing system. If you are unsure of the proper wiring configuration, consult the dosing system manufacture for specific electrical requirements.

1. Dosing Pump or Solenoid Valve
 - a. Dosing turns ON when power is supplied
 - b. Connect the Line (live) wire between COM and N.O.
2. Salt Chlorinator (using flow switch input)
 - a. Dosing turns ON when connection is detected
 - b. Connect a 2-strand wire between COM and N.O. to the flow switch input



3. Salt Chlorinator (dry contact or 24V)
 - a. Dosing turns OFF when power is supplied
 - b. Connect the Line (live) wire between COM and N.C.



Caution:

- Each relay connection is limited to 4 amps, to prevent overheating
- Make sure that voltage to the dosing system is correct before connecting power supply
- Prizmas' cover should not be opened except for initial installation and troubleshooting

2.4.3. Connecting External Communication

The RS-485 connection is used for external communication including the optional Water Guard OL Wireless Communicator. Please see Water Guard OL manual for communicator details.

1. Connect the '+' on the Prizma™ RS485 terminal block to the '+' of the communicator RS485 terminal block
2. Connect the '-' on the Prizma™ RS485 terminal block to the '-' of the communicator RS485 terminal block

2.4.4. Connecting the Empty Tank Alarms

These connections allow for sensors in the chlorine and pH feed systems to display alarms when the chlorine and pH run out. The sensors are not supplied with the controller.

Sensor must supply dry contact (ON/OFF) signal to be recognized by Prizma™. Follow tank sensor manufacture directions for installation and confirmation of wiring

- Connect the two wires from the tank sensor to the Ground and IN of the CI or pH empty terminal block.

2.4.5. Connecting External Flow Switch

The external flow switch provides another layer of safety against accidental chemical dosing in the case of no flow in the pool's circulation system where chemicals are being added (i.e. during backwash). Prizma™ supports both 2 and 3 wire flow switches.

Follow flow switch manufacturer directions for installation and confirmation of wiring. Place a jumper (short) connection J21 Flow Control, located on top right of main electronics card.

- If a 2 wire switch is used, it should be connected to the "INP" and "GND" connections on Prizma™.
- If a 3 wire switch is used, the "VCC" connection will also be used. After connection check for proper operation and change wire order if not working.

2.5. Completing Installation

1. Replace the cover of the Prizma™ making sure that all screws are securely in place; do not over tighten.
2. Install a new cassette
3. Close Door and lower tabs to hold door in place
4. Cassette will load automatically start to test and control the pool.

3. Controller Settings and Software Set-up

To ensure that Prizma™ is able to control most effectively, it must be configured to the specific pool to account for differences in: pool volume, chemical feed rates, and set-points. This is accomplished through the remote programmer, which is also used to calibrate the controller. Connect the remote programmer to the 15-pin connector on the bottom of the Prizma™ and the controller will automatically enter programming mode.



3.1. Connecting Programmer

1. Connect the cable from the remote programmer to the 15 pin connector on the bottom of the Prizma™
2. Press and hold PWR for 3 seconds until the back-light on the programmer turns ON
3. The software and hardware version of the programmer will appear on the screen
 - a. Connection Status
 - i. If a Prizma™ controller is properly connected, the screen will display the Prizma™ ID and any active alarms
 - ii. If a Prizma™ controller is not properly connected, the programmer will show "Device Not Found" and will shut down
 - b. Battery Life -- on the top right corner of the display

3.2. General Manu Navigation

- | | |
|---------------------|------------------------------------|
| • MEN. | Enters the menu |
| • PWR. | Turns Programmer ON/OFF |
| • ESC. | Exits Menu |
| • OK | Makes a Selection or Accept Change |
| • UP/DOWN Arrows | Changes Menu or Setting Value |
| • LEFT/RIGHT Arrows | Changes Setting Value |

3.3. Main Menu 1: Chlorine Settings

1. Press MENU
2. Use the UP and DOWN Arrows to select CL Set-Point and Press OK
3. Use the UP and DOWN Arrows to enter the CL Set-Point and Press OK
4. Use the LEFT and RIGHT Arrows to select YES and Press OK to Save Changes
5. Use the UP and DOWN Arrows to select CI Feed Rate and Press OK
6. Use the UP and DOWN Arrows to enter the CI Feed Rate and Press OK
7. Use the LEFT and RIGHT Arrows to select YES and Press OK to Save Changes

3.4. Main Menu 2: pH Settings

1. Press MENU (if already in menu do not need to press again)
2. Use the UP and DOWN Arrows to select pH Set-Point and Press OK
3. Use the UP and DOWN Arrows to enter the pH Set-Point and Press OK
4. Use the LEFT and RIGHT Arrows to select YES and Press OK to Save Changes
5. Use the UP and DOWN Arrows to select pH Feed Rate and Press OK
6. Use the UP and DOWN Arrows to enter the pH Feed Rate and Press OK
7. Use the LEFT and RIGHT Arrows to select YES and Press OK to Save Changes

3.4.1. CI and pH Feed Rates

Note: The pump(s) included with Prizma™ generally operate at 2 L/hr (12.7 gal/day), but will vary slightly depending on backpressure.

The feed rate is the output of the feed system in (l/h or gal/day) and the controller assumes 12% sodium hypochlorite solution for chlorine and Muriatic Acid / HCL for pH. If using diluted solutions or different feed systems adjust accordingly. The table on the right provides estimates for starting points as well as conversions if you have specific feed rates from your dosing system manufacturer.

CI Feed Rate (approximate conversion)				
Dosing System	l/h	gal/day	g/day	lb/day
Salt Chlorinators	0.1	0.6	288	0.6
	0.2	1.3	576	1.3
	0.3	1.9	864	1.9
	0.4	2.5	1,152	2.5
	0.5	3.2	1,440	3.2
Tablet Feeders	0.6	3.8	1,728	3.8
	0.7	4.4	2,016	4.4
	0.8	5.1	2,304	5.1
	0.9	5.7	2,592	5.7
Liquid Dosing Pumps	1	6.3	2,880	6.3
	2	12.7	5,760	12.7
	3	19.0	8,640	19.0
	4	25.4	11,520	25.4
	5	31.7	14,400	31.7
	6	38.0	17,280	38.1
	7	44.4	20,160	44.4

Note: A Lower feed rate will increase the amount of time the feeder is ON. A higher feed rate will decrease the amount of time the feeder is ON.

- If the pool is consistently below the set-point, lower the feed rate.
- If the pool is consistently above the set-point, raise the feed rate.

3.5. Main Menu 3: Calibration and Pool Volume

3.5.1. Calibrating Cl and pH

Note:

- Calibration should be completed approximately 2 weeks after installation to allow the pool's chemical levels to stabilize.
- When calibrating, make sure that water for the manual test is taken from the sample line to the Prizma™ Controller; not directly from the pool.
- The Cl and pH must be in measurement range (Cl between 0.5 to 5.0 ppm and pH between 6.5 to 8.2) in order to calibrate. If the Cl or pH is out of measurement range an alarm of "Out of Range Balance the Pool". Calibration should be performed when the pool is operate at or near (+/- 25%) of the set-points for both Cl and pH.

1. Press MENU
2. Use the UP and DOWN Arrows to select Cl CALIBRATION and Press OK
3. Display will show "CL Value" and "Sensor Value". The Cl Value is the calibrated value for Cl and the Sensor Value is the measured Cl level with no calibration.
4. Press OK
5. Display will show Wait for Measurement
 - a. Measurement cycle will start
 - b. If there is a problem with the test preventing calibration (i.e. no flow or no cassette), the programmer will display "Check Alarms".
6. Perform Manual Test on the water from the Prizma™ sample line using a digital photometer.
7. Wait for measurement to complete (TEST NOW Light will go out when complete)
8. Use the UP or DOWN Arrows to change the CALIBRATE TO value to match the manual test and Press OK
9. Use the LEFT and RIGHT Arrows to select YES and Press OK to Save Changes
10. Repeat Steps 2-9 for pH Calibration

3.5.2. Setting Pool Volume

1. Press MENU (if already in menu do not need to press again)
2. Use the UP and DOWN Arrows to select POOL VOLUME and Press OK
3. Use the UP and DOWN Arrows to enter the POOL VOLUME and Press OK
4. Use the LEFT and RIGHT Arrows to select YES and Press OK to Save Changes

3.6. Main Menu 4: Pump Operation and Test Now

3.6.1. Testing Cl and pH Feed System

1. Press MENU (if already in menu do not need to press again)
2. Use the UP and DOWN Arrows to select Cl Pump opr: and Press OK
3. Use the LEFT Arrow to select ON
4. Confirm that the Cl pump or dosing system turns ON
5. Use the RIGHT Arrow to Select OFF
6. Confirm that the Cl pump or dosing system turns OFF
7. Press OK
8. Repeat Steps 2-8 for pH Pump opr.

3.6.2. Test Now

1. Press MENU (if already in menu do not need to press again)
2. Use the UP and DOWN Arrows to select Test Now and Press OK
 - a. Use the LEFT and RIGHT Arrows to select YES and Press OK
 - b. Measurement cycle will start
 - a. If there is a problem with the test (i.e. no flow or no cassette), the programmer will display "Check Alarms".

3.7. Menu 5: Additional Pool Information

In order to accurately account for the evaporation rate of the chlorine, additional information about the specific pool is required.

1. Press MENU (if already in menu do not need to press again)
2. Use the UP and DOWN Arrows to select Stabilized and Press OK
 - a. This includes the use of stabilized chlorine such as di-chlor and tri-chlor and/or using cyanuirc acid.
3. Use the LEFT Arrow to select Yes or No and Press OK
4. Use the UP and DOWN Arrows to select Pool Cover and Press OK
5. Use the LEFT Arrow to select Yes or No and Press OK
6. Use the UP and DOWN Arrows to select Indoor and Press OK
7. Use the LEFT Arrow to select Yes or No and Press OK
8. Press ESC
9. A message asking if you want to Send all Changes will appear on the display. Use the LEFT Arrow to Select Yes to Send the Changes to the Prizma™.
10. The Remote Programmer will return to the main menu display.

3.8. Technical Menu

This Menu shows additional information about the Prizma™ that may be useful in troubleshooting problems as well as the remote programmer set-up.

To enter the Technical Menu:

1. Press MENU
2. Press UP and DOWN Arrows TOGETHER

3.9. Technical Menu 1 and Technical Menu 2

These menus show additional information about the connected Prizma™. NO changes can be made to these values; it is for information only. Descriptions of each are below:

- Temperature: Temperature inside the Prizma™ Controller in °C
- Evap Factor: Evaporation Factor Prizma™ is using (based on settings in Menu 5)
- Light Intens: Light Intensity of the LEDs
- SW ver num: Software Version of the connected Prizma™
- HW ver num: Hardware Version of the connected Prizma™
- Protocol #: Communication Protocol of the connected Prizma™

3.10. Tech Menu 3: Remote Programmer Settings

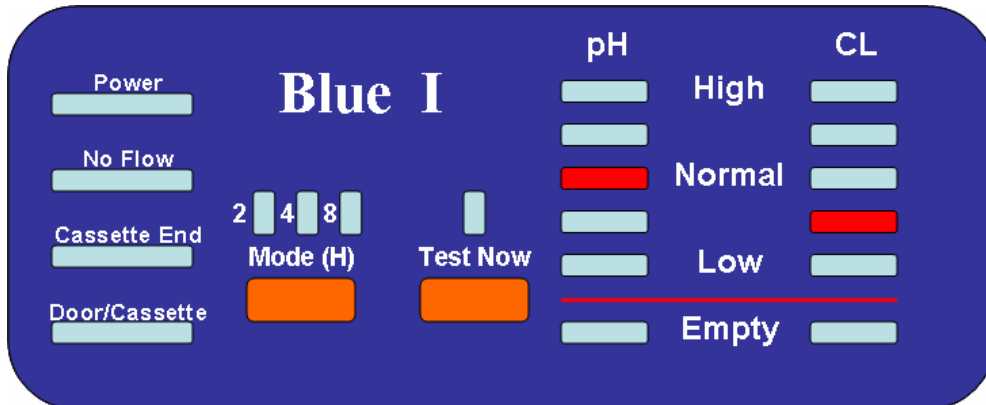
This menu allows for selecting US or Metric units and Language of the Remote Programmer

1. Use the UP and DOWN Arrows to Select Pool Vol and Press OK
2. Use the LEFT and RIGHT Arrows to Select between m³ or gal and Press OK
3. Use the UP and DOWN Arrows to Select Feed Rate and Press OK
4. Use the LEFT and RIGHT Arrows to Select between L/hr or gal/day and Press OK
5. Use the UP and DOWN Arrows to Select Language and Press OK
6. Use the LEFT and RIGHT Arrows to Select the Language of the Remote Programmer and Press OK

3.11. Tech Menu 4: Remote Settings Continued and Testing

This menu allows for future features of a remote programmer self-test and RFID settings.

4. Normal Operation



Under normal operation, the display will show pH and Cl values in a scale of low, normal, and high based on the following values:

pH	pH Range	CL	Cl Range (ppm)
	> 8.1		> 5.1
	7.8 to 8.1		3.1 to 5.0
	7.0 to 7.6		1.2 to 3.0
	6.5 to 6.9		0.6 to 1.1
	< 6.4		< 0.5

Only 1 LED will be illuminated and will indicate the range of pH or Cl values.

In the example to the left, the pH is between 7.0 and 7.6 and the Cl is between 0.6 to 1.1 ppm.

The Remote Programmer will show the numeric values for the pH and Cl test to the nearest tenth.

5. Alarms and Troubleshooting

- **No Flow** – flow to Prizma™ is off or too low
 - Check that water is flowing to and from Prizma™ and correct problem preventing flow to controller
 - Check that internal flow switch is rotating
 - Remove obstruction preventing flow switch from moving
 - Check wire connection on electronics card
 - replace flow switch if necessary

- **Cassette End** – Testing cassette is empty
 - Replace Cassette

- **Door/Cassette** – cassette is not properly installed or door open.
 - open door, remove cassette then replace cassette and close door making sure to re-latch both latches for the door.

- **Chlorine or pH too low/high**
 - Check that the injectors are not clog
 - Check that the salt level is not low
 - Use remote programmer to:
 - Adjust set-point if not properly set
 - Increase total amount of Cl or pH feed by:
 - Increasing Pool Volume or
 - Decreasing Feed Rate (yes decreasing)
 - Decrease total amount of Cl or pH feed by:
 - Decreasing Pool Volume or
 - Increasing Feed Rate (yes increasing)

6. Maintenance

6.1. Replacing the Test-strip Cassette

When the test-strip cassette is empty, the “cassette end” alarm will light-up.

1. Open Cassette Door
2. Remove the old cassette and discard
3. Open a new cassette and press into place
4. Close the cover
5. The cassette will automatically load and testing and control will resume automatically



6.2. Replacing the Dosing Pump Tube

There are two dosing pumps assembled on the sides of the Prizma™.

Each pump comes with one spare tube.

This tube should be replaced **once a year** for proper maintenance and correct functionality.

1. Disconnect the Prizma™ from the power source
2. Take off the transparent lid on the hydraulic group
3. **To dismantle the tube** turn the roll holder so that the rollers are on the vertical line
4. Remove from its seat the connection on the left of the pump, alternatively pull the tube out of its seat and manually rotate the roll holder clockwise until it is possible to extract the right hand side connection from its seat
5. **To mount the tube** turn the roll holder so that the rollers are on the horizontal line
6. Insert the connection in its seat on the left of the pump with the curved side towards the floor, alternatively push the tube into its seat and manually rotate the roll holder clockwise until it is possible to insert the right hand side connection into its seat
7. Insert the protection lid starting from the top, with shear facing the pump and pushing slightly on the sides so to hear the click



6.3. Flow Meter Replacement

Please refer to Appendix A figure 3 item No.5 for part location identification inside the Prizma™.

The flow meter should be replaced **once a year** for proper maintenance and correct functionality.



1. Disconnect the Prizma™ from the power source and stop the water flow
2. Remove the cassette
3. Take off the front cover:
 - a. remove two bolts on the top of the front cover (covered with rubber cover) and two bolts on the bottom of the front cover (located behind the cassette holder)
 - b. remove three conical bolts located in the middle of the cassette holder
4. Open the front cover
5. Locate the flow meter
6. Replace the flow meter (P/N: 910-005-0000) maintaining the same initial (vertical) position
7. Check that the flow meter assembled correctly:
 - a. Connect the Prizma™ to the water flow
 - b. Verify that flow meter is working and there is no water leakage
 - c. Connect the Prizma™ to the power source
 - d. Verify that “no flow” indication is off
 - e. Disconnect the Prizma™ from the power source
8. Close the front cover using and insert back the bolts
9. Insert back the cassette
10. Close the cassette cover
11. Connect the Prizma™ to the power source
12. The cassette will automatically load and testing and control will resume automatically

6.4. Sampling Water Pump Replacement

Please refer to Appendix A figure 3 item No.2 for part location identification inside the Prizma™.

The sampling water pump should be replaced **once a year** for proper maintenance and correct functionality.

1. If the front panel is not already open, repeat steps 1 to 4 in Sec. 6.3 above
2. Locate the sampling water pump
3. Replace the sampling water pump (P/N: 910-009-0000)
4. Check that the sampling water pump assembled correctly:
 - a. Connect the Prizma™ to the water flow
 - b. Verify that there is no water leakage from sampling water pump tubes
5. Close the front cover using and insert back the bolts
6. Insert back the cassette
7. Close the cassette cover
8. Connect the Prizma™ to the power source
9. The cassette will automatically load and testing and control will resume automatically

6.5. Cl and pH Injectors maintenance

Caution: This procedure must be done by an experienced and well trained technician.
Any direct contact between the pH acid and the chlorine liquid must be avoided and may cause serious injury.

The injectors may clog after a long usage period. It is recommended to clean them every **six month**.

1. Disconnect the Prizma™ from the power source
2. Close the valves to and from the pool in order to prevent the water flow
3. Disconnect the chemical tubes from the injectors
4. Remove the injectors from the clamp saddle
5. Put the injectors in a fur remover solvent for a few minutes
6. Wash the clean injector with fresh water
7. For preventive treatment switch between the injectors :
 - a. Connect the injector that was for the Cl to the pH tube and vice versa
 - b. Install the injectors back to the clamp saddle
8. Open the valves to and from the pool in order to restore the water flow
9. Connect the Prizma™ to the power source

Appendix A – Prizma™ Internal Parts Description

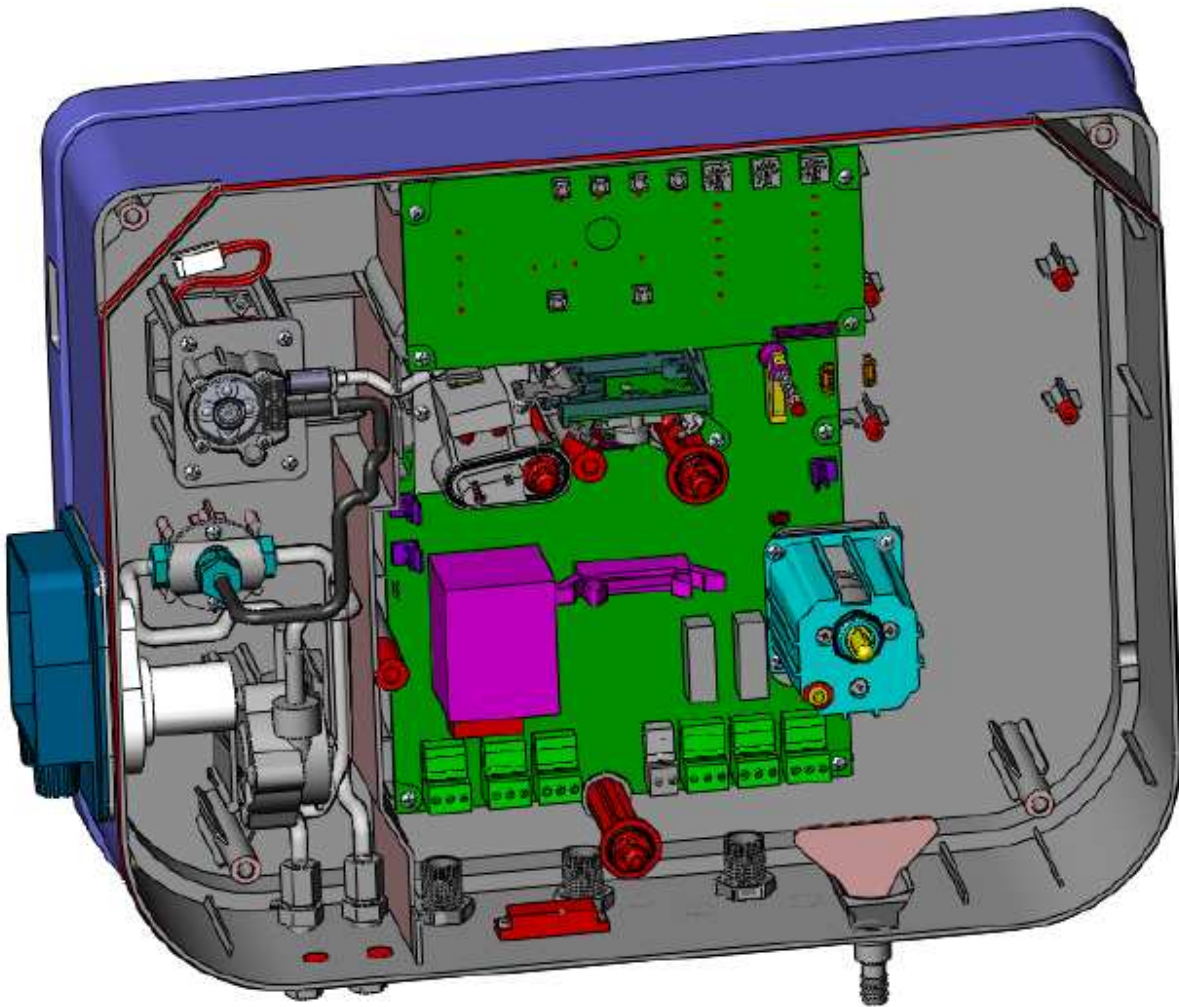


Figure 2: General View

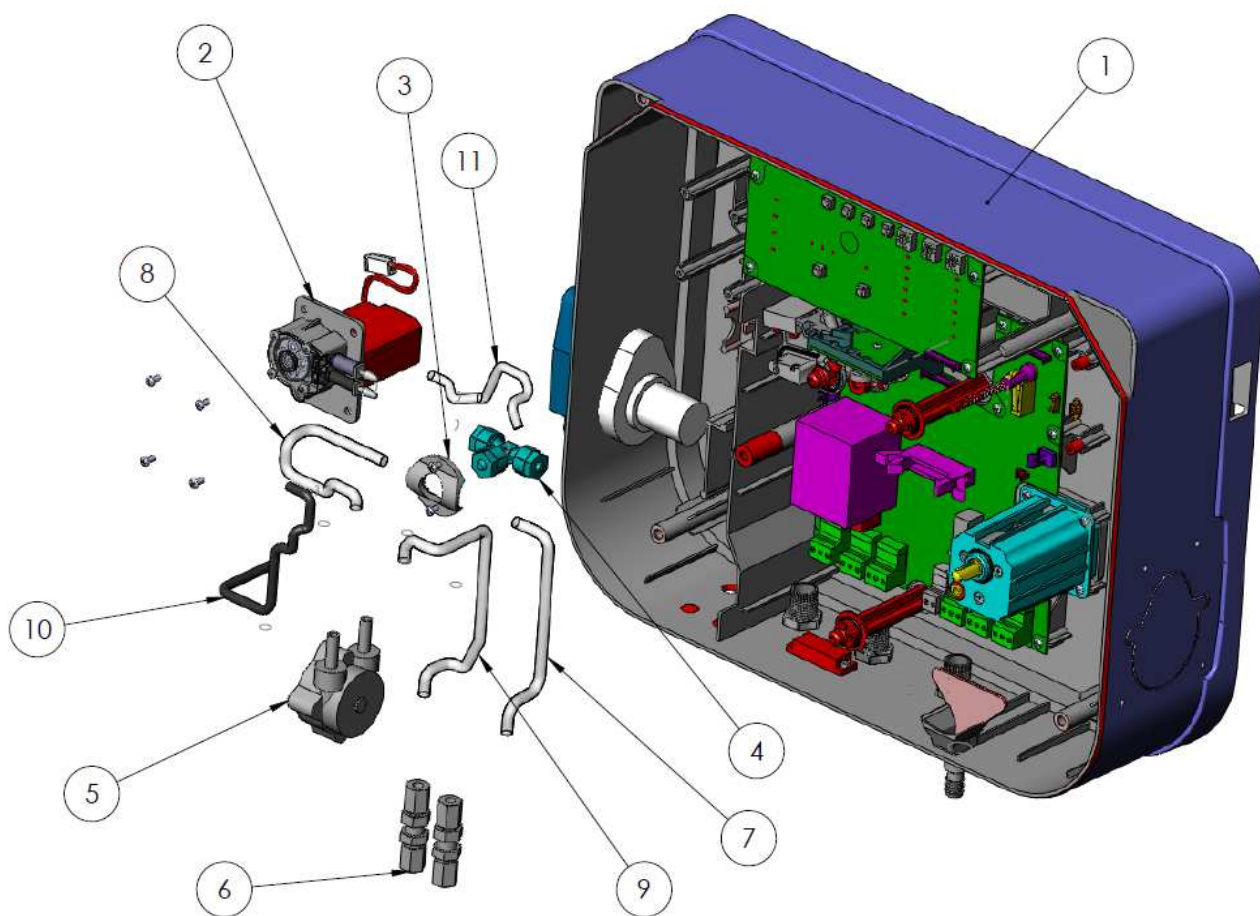


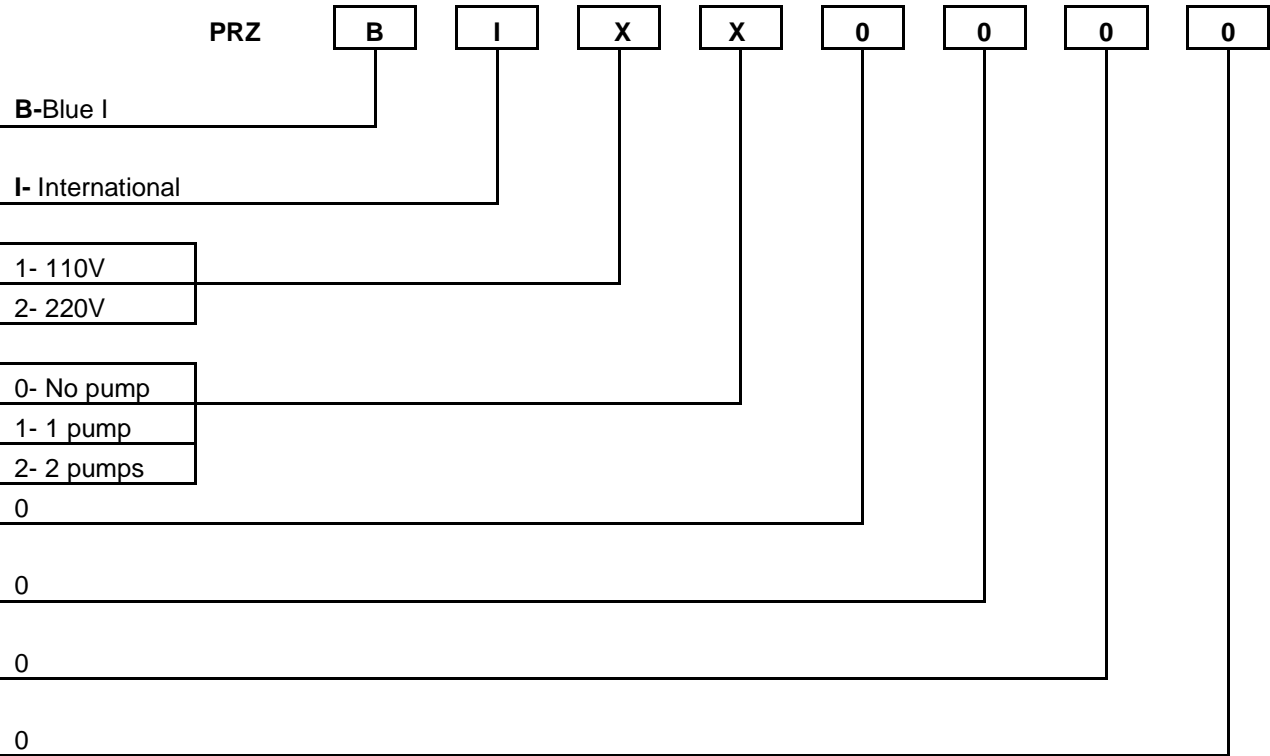
Figure 3: Detailed parts description

PART NUMBER	ITEM NO.	DESCRIPTION	with cl pump/QTY.
910-012-0000	1	Prizma Base Assembly	1
910-009-0000	2	Sampling Water Pump	1
910-000-4035	3	OMEGA T Holder	1
910-000-4036	4	TEFEN T6 (Tube Assembly)	1
910-005-0000	5	Flow meter (Tube Assembly)	1
910-000-4039	6	Serto 6mm	2
972-000-0090	7	Transparent tube (420 mm)	1
972-000-0090	8	Transparent tube (200 mm)	1
972-000-0090	9	Transparent tube (310 mm)	1
970-210-0008	10	Neoprene 4-6 tube (65mm)	1
970-210-0008	11	Neoprene 4-6 tube (85mm)	1

Appendix B – Ordering Information

1. Prizma™ ordering information:

P/N Format: PRZ-BIX-X0000



2. Spare parts and accessories:

Below is a list of spare parts and accessories that can be ordered separately.

Part number	Description
910-000-4012	Prizma wall mount
910-000-4095	PG-9 Dust Cap (installed on the PG9)
910-000-4106	Bushing male 1/2" to female 3/8
910-000-4108	Blue Bushing 1/4" to 1/2
910-100-1000	Cassette for Prizma controller
970-110-3007	Fast connector 1\4 to 6 mm
970-110-5004	PG9-JIGO
970-210-0133	Plastic valve male female 1/4 blue handle
910-000-4099	5 meter Polyethylene tube 6 mm
910-000-4091	Clamp Saddle for Prizma - 50 mm
972-000-0191	Tube for dosing pump
910-004-0000	Dosing pump including spare tube, weight and injector
911-000-0000	Remote Programmer
910-009-0000	Sampling Water Pump including connection tubes
910-000-4035	OMEGA T Holder
910-000-4036	TEFEN T6 including connection tubes
910-005-0000	Flow meter including connection tubes
910-000-4039	Serto 6mm



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