

# GUARDIAN™

## ULTRAVIOLET MONITOR

Analog Direct Mount Monitor



**ATLANTIC  ULTRAVIOLET**  
CORPORATION®

*Manufacturers / Engineers / Sales / Service*  
Germicidal Ultraviolet - Equipment & Lamps

375 Marcus Boulevard • Hauppauge, NY 11788  
631.273.0500 • Fax: 631.273.0771  
Email: Sales@AtlanticUV.com  
Ultraviolet.com • BuyUltraviolet.com

Extensive Product Information Available at:

**Ultraviolet.com**  
**BuyUltraviolet.com**



## Installation, Operation & Maintenance

**Read and Follow  
All Safety Instructions.  
Save these Instructions.**

# Owner's Manual

# TABLE OF CONTENTS

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<b>SAFETY WARNINGS</b> .....	<b>3</b>
SAFETY INSTRUCTIONS .....	3
SAFETY LABELS .....	3
CAUTION.....	3
<b>PRODUCT APPLICATION</b> .....	<b>4-5</b>
CONSTRUCTION.....	5
PRINCIPLE OF OPERATION .....	5
LIMITATION OF USE.....	5
UNPACKING.....	5
<b>INSTALLATION</b> .....	<b>6-8</b>
LOCATION .....	6
CONVENTIONAL INSTALLATION.....	6-8
<b>TRIP SET POINT</b> .....	<b>8</b>
<b>TROUBLESHOOTING</b> .....	<b>9-10</b>
“LOW” INTENSITY READING .....	9
“MONITOR NOT OPERATING” .....	10
<b>TECHNICAL SPECIFICATIONS</b> .....	<b>11</b>
<b>REPLACEMENT PARTS</b> .....	<b>11</b>
<b>ACCESSORIES</b> .....	<b>11</b>
<b>USER ASSISTANCE</b> .....	<b>12</b>
<b>PRODUCT REGISTRATION</b> .....	<b>12</b>
<b>WARRANTY</b> .....	<b>12</b>
PATENT NOTICE.....	12


These instructions generally describe the installation and operation of the **GUARDIAN™** Ultraviolet Monitor. Questions that are not specifically answered by these instructions should be directed to the Factory. Atlantic Ultraviolet Corporation® takes all possible precautions when packaging equipment to prevent damage. Carefully inspect and report all damages. Do not install damaged equipment. Follow all instructions on any labels or tags. Carefully inspect all packing materials before discarding to prevent the loss of accessories, mounting hardware, spare parts or instructions.


The information and recommendations contained in this publication are based upon data collected by the Atlantic Ultraviolet Corporation® and are believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Specifications and information are subject to change without notice.


# SAFETY WARNINGS


- All personnel should be alerted to the potential hazards indicated by the product safety labeling on this unit.
- The following conventions are used to indicate and classify precautions in this manual and on product safety labeling. Failure to observe precautions could result in injury to people or damage to property.

 This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

 **DANGER** Danger indicates an **IMMINENTLY** hazardous situation, which, if not avoided, **WILL** result in death or serious injury.


 **WARNING** Warning indicates a **POTENTIALLY** hazardous situation, which, if not avoided, **COULD** result in death or serious injury.


 **CAUTION** Caution indicates a **POTENTIALLY** hazardous situation, which, if not avoided, **MAY** result in minor or moderate injury.


 **CAUTION** Caution used without the safety alert symbol indicates a potentially hazardous situation, which, if not avoided, may result in property damage.


 This symbol/pictorial is used to identify an **ELECTRICAL SHOCK** or **ELECTROCUTION** hazard.

 This symbol/pictorial is used to identify an **ULTRAVIOLET LIGHT** hazard.


 This symbol/pictorial is used to identify the need to wear approved ultraviolet blocking eye-wear.

 This symbol/pictorial is used to identify the need to wear approved ultraviolet blocking face shield.


 This symbol/pictorial is used to identify the need to wear protective gloves.






 This symbol/pictorial is used to identify components which must not be disposed of in trash

# SAFETY INSTRUCTIONS

 **WARNING** To guard against injury, basic safety precautions should be observed, including the following:

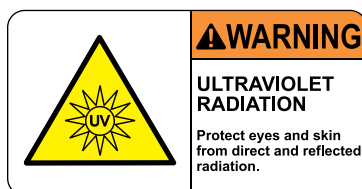
1. Read and follow ALL safety instructions.

   **WARNING** Avoid exposure to direct or reflected germicidal ultraviolet rays. Germicidal ultraviolet rays are harmful to the eyes and skin.

2. Intended for indoor use only.
3. Do not alter design or construction.
4. Do not use this unit for anything other than its intended purpose, as described in this manual.
5. Do not remove any labels or devices.
6.  The **GUARDIAN™** Ultraviolet Monitor should be protected from harsh environments, high humidity, and temperature extremes.
7.  **WARNING** The **GUARDIAN™** Ultraviolet Monitor housing is not waterproof. Serious damage can occur if internal electronics come in contact with water.
8.  **CAUTION** Germicidal ultraviolet rays may break down plastic, rubber or other non-metallic materials, with inadequate resistance to ultraviolet. Shield all plastic, rubber or other non-metallic parts such as: plastic drain pans, wire insulation, flex ducts, humidifiers, filters, etc. which may be exposed to direct or reflected germicidal ultraviolet rays.
9. Do not operate the **GUARDIAN™** Ultraviolet Monitor if the power cord and/or plug are damaged, or if any other damage to the monitor is visible or suspected.
10.  **WARNING** Do not operate without proper electrical ground.
11. Utility power supplied, to the **GUARDIAN™** Ultraviolet Monitor, **MUST** match power requirements listed on the monitor label.
12.  **WARNING** Always disconnect power, to the **GUARDIAN™** Ultraviolet Monitor and unplug, before performing any service or maintenance
13. Read and follow all notices and warnings on the unit.
14. **SAVE THESE INSTRUCTIONS.**

# SAFETY LABELS

*Warnings on 2 sides of each monitor*



# CAUTION

It is the user's responsibility to determine and validate the suitability of this equipment for use in the user's system or process. No warranty or representation is made by the manufacturer with respect to suitability or performance of this equipment or to the results that may be expected from its use.

The user should periodically inspect, clean as necessary and confirm the presence and good legibility of the product safety labels. Contact the factory for replacement labels in the event that any of the labels are missing or illegible.

# PRODUCT APPLICATION

Figure 1 – Analog GUARDIAN™ Monitor Face



Figure 2 – Rear View of Analog GUARDIAN™

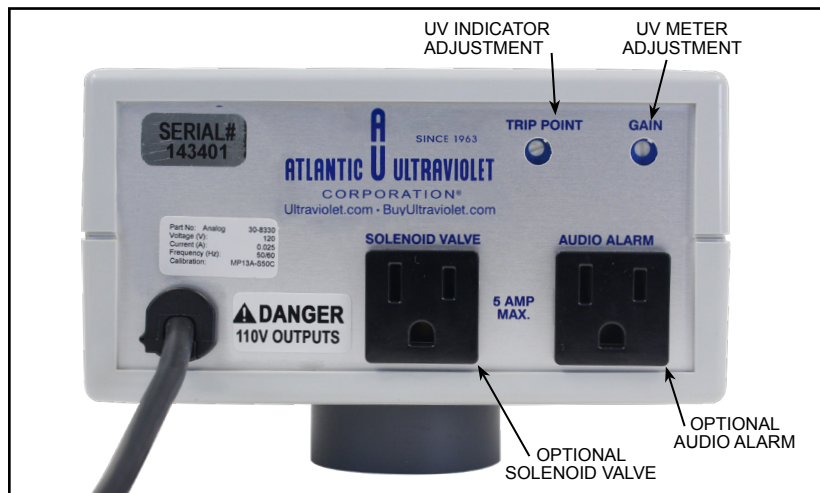


Figure 3 – Standard Probe for Direct Mount



# PRODUCT APPLICATION CONT.

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## CONSTRUCTION

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The Analog **GUARDIAN™** Model has a Meter Instrument Face (See **Figure 1**). The Analog **GUARDIAN™** model provides two NEMA 5-15 output sockets located on the rear of the monitor. One is marked “**SOLENOID VALVE**” and is for the operation of an optional **Promate™** solenoid valve or time delay/solenoid valve combination. The other is marked “**AUDIO ALARM**” and is for an optional **Promate™** audio alarm.

The Analog **GUARDIAN™** is rated to provide 5 amps total at the same voltage of your Monitor, either 120v or 220v (See **Figure 2**).

- Each **GUARDIAN™** is accompanied with a high quality precisely machined Sensor Probe made from Stainless Steel Type 316 which contains a highly polished quartz optical rod. Sensor Probes are installed directly to a purifier by means of a Sensor Probe Fitting also known as a Sight Port Fitting. See Standard Probe (**Figure 3**)
- The **GUARDIAN™** Ultraviolet Monitor is designed to mount directly to the Sensor Probe on the purifier.
- The **GUARDIAN™** is fabricated from UL Approved ABS Fire Retardant Plastic with a clearly marked silk screened anodized aluminum instrument face to ensure long life and resist corrosion and wear.

## PRINCIPLE OF OPERATION

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The **GUARDIAN™** Ultraviolet Monitor visually indicates the level of germicidal ultraviolet energy that penetrates the quartz sleeve and water within the purifier. The monitor will detect reduction of ultraviolet levels due to:

- Fouling or deposits on the quartz sleeve.
- Fouling or deposits on the face of the sensor probe.
- Poor ultraviolet transmission through the water. Note that color, turbidity, and organic or other impurities in the water can reduce or interfere with the transmission of ultraviolet rays.
- Lamp outage, component or power failure.
- Depreciation of the lamp output. Note, lamp output gradually depreciates with use.

When the **GUARDIAN™** Ultraviolet Monitor detects a germicidal ultraviolet energy level which is acceptable it will:

- Light a Green LED on the front of the instrument panel with the heading “**NORMAL.**”
- Provide output power to the NEMA 5-15 Socket with the Heading “**SOLENOID.**” If an Optional **Promate™** Solenoid Valve was purchased from Atlantic Ultraviolet Corporation® and is present in your plumbing circuit and connected to this output, the solenoid valve will continue to allow water to flow through your purifier.
- In the case of an Analog **GUARDIAN™** Monitor, the meter on the instrument face should display a number between .3 and 1.0.

When the **GUARDIAN™** Ultraviolet Monitor detects a germicidal ultraviolet energy level which is unacceptable it will:

- Light a Red LED on the front of the instrument panel with the heading “**LOW.**”
- Provide output power to the NEMA 5-15 Socket with the heading “**AUDIO ALARM.**” If an Optional **Promate™** Audio Alarm is present and connected to this output, the alarm will sound. If an Optional **Promate™** Solenoid Valve is present in your plumbing circuit and connected to the “**SOLENIOD**” output, the solenoid valve will de-energize and stop the flow of water flow through your purifier. In the case of an Analog **GUARDIAN™** Monitor, the Meter on the instrument face should display a number below .3.

## LIMITATION OF USE

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The **GUARDIAN™** Monitors are intended to be used on the **SANITRON®** and **MIGHTY★PURE®** Ultraviolet Water Purifiers or other models made specifically by Atlantic Ultraviolet Corporation® located in Hauppauge New York. Using this product on any other product not recommended or recognized by Atlantic Ultraviolet Corporation® may result in a false sense of security and can lead to improperly treated water.

## UNPACKING

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- Remove the **GUARDIAN™** Monitor from its shipping carton.
- Atlantic Ultraviolet Corporation® takes all possible precautions when packing this unit to prevent damage. Carefully inspect the unit, power cord and plug as well as the sensor probe and other contents of the carton for damage. Report all damage immediately. Do not assemble or operate if there is any damage.
- Carefully inspect all packing materials to prevent the loss of accessories, spare parts or instructions.
- Do not discard packing materials until unit is assembled, checked and confirmed in working order.
- The **GUARDIAN™** Monitor includes a Sensor Probe (either a standard or a remote), a 5/64” Allen Wrench, and a remote cable.

# INSTALLATION

## LOCATION

- The **GUARDIAN™** Monitor is intended for indoor use only. Sensor Probes are installed directly to a purifier by means of a Sensor Probe Fitting also known as a Sight Port Fitting. The **GUARDIAN™** Monitor should be protected from environments, high humidity, and temperature extremes or dripping water.
- The electrical power supplied to the **GUARDIAN™** Monitor **MUST** match the power requirements listed on the **GUARDIAN™** Monitor. Use of voltage surge protectors is recommended.

## CONVENTIONAL INSTALLATION (SEE FIGURE 7 FOR EXAMPLE OF CONVENTIONAL INSTALLATION)



IN ORDER TO PERFORM THIS TASK, BE SURE TO WEAR THE FOLLOWING SAFETY EQUIPMENT: SAFETY GLASSES OR A FACE SHIELD, AS WELL AS GLOVES.

**⚠ WARNING** Always disconnect power to all devices before performing any service or maintenance.

- Each monitor is calibrated with its accompanying sensor probe. The serial number engraved on the sensor probe must match the serial number of the monitor. If installing more than one monitor, **DO NOT** interchange sensor probes.
- Newer **GUARDIAN™** monitors have been calibrated for use with updated sensor probes and cannot be used with earlier model probes without factory recalibration.
- Voltage of the monitor and purifier does not have to be the same, although we highly recommend that they do operate at the same voltage. However, if using optional **Promate™** Solenoid Valve and/or **Promate™** Audio Alarm, the voltage of each **MUST** be the same as the monitor input.
- Older model water purifiers may require a reducing bushing to properly mount the newer sensor probes. If you are unsure whether the reducing bushing is required, contact the factory.

Figure 4 – Removal of Sight Port Plug



Figure 5 – Installing a Standard Probe into Sight Port Fitting



Figure 6 – Mounting the Monitor on the Probe



1. **⚠ WARNING** Unplug the water purifier from electrical outlet.
2. If the purifier has been in service, shut off water supply to the purifier via the inlet and outlet shut off valves.
3. Remove the translucent sight port plug from the center, sight port fitting of the chamber. (See Figure 4)
4. Insert Sensor Probe into the center Sight Port Fitting of the purifier chamber and tighten securely. The use of thread sealing tape, sealing compounds, or hand tools for tightening, are not required. Note that a Standard Probe is being installed and that the Remote Probe would be installed in the same manner. (See Figure 5)



## CONVENTIONAL INSTALLATION CONT. (SEE FIGURE 7 FOR EXAMPLE OF CONVENTIONAL INSTALLATION)

**CAUTION** The quartz rod protrudes out past the probe cap, be careful not to strike rod against fitting when installing the probe.

5. Slowly restore water supply to the water purifier, pressurize (keeping outlet valve closed), and check for leaks. Once it is determined that there are no leaks, the inlet valve can be fully opened.
6. Mount the monitor on top of the Sensor Probe; position the monitor as desired, and secure by tightening the set screws in the collar using the supplied 5/64" Allen Wrench. (See Figure 6)
7. Any optional accessories such as, **Promate™** Audio Alarm, **Promate™** Solenoid Valve, can now be connected to the appropriate sockets on the rear of the monitor. (See Figure 2)
8. With the monitor switch in the "OFF" position, plug the monitor into an electrical outlet. **Note that the electrical power outlet of the optional Promate™ Audio Alarm and/or Promate™ Solenoid Valve must match power requirements listed on the monitor label.**
9. Plug the water purifier into electrical outlet and restore power. Allow purifier to warm up for approximately 10 minutes. Warm up period allows germicidal lamp to reach full output.
10. Switch the monitor "ON". The solenoid valve (if installed) should open and the "NORMAL" indicator light should come on. The analog meter should read between .3 and 1.00, or the digital meter should read between 30 and 120.
11. Open outlet valve.
  - If for any reason the ultraviolet intensity falls to an inadequate level, the display will indicate in the trip area, (generally less than .3 on the analog meter or 30 on the digital), the "LOW" indicator light will light, the optional **Promate™** Audio Alarm (if installed) will sound, and the optional **Promate™** Solenoid Valve (if installed) will close.

Figure 7 – Example of a Conventional Installation

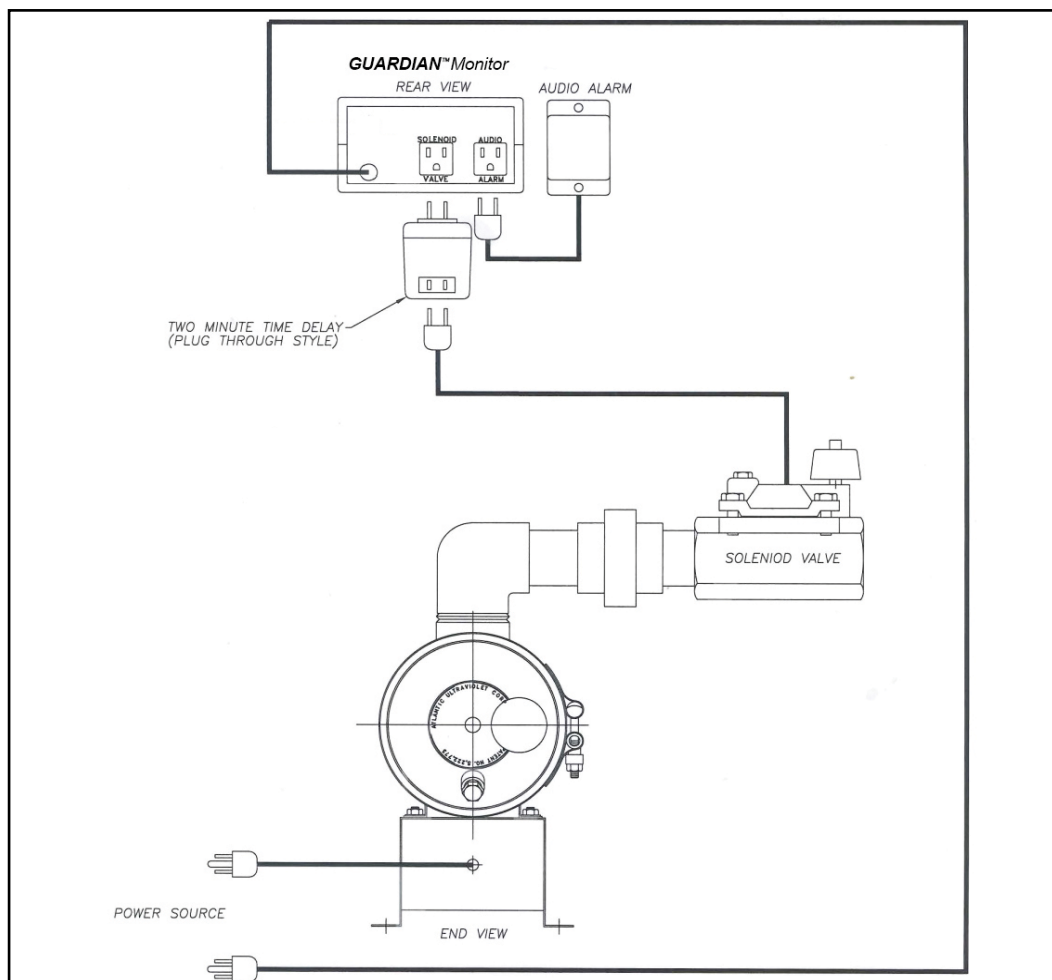
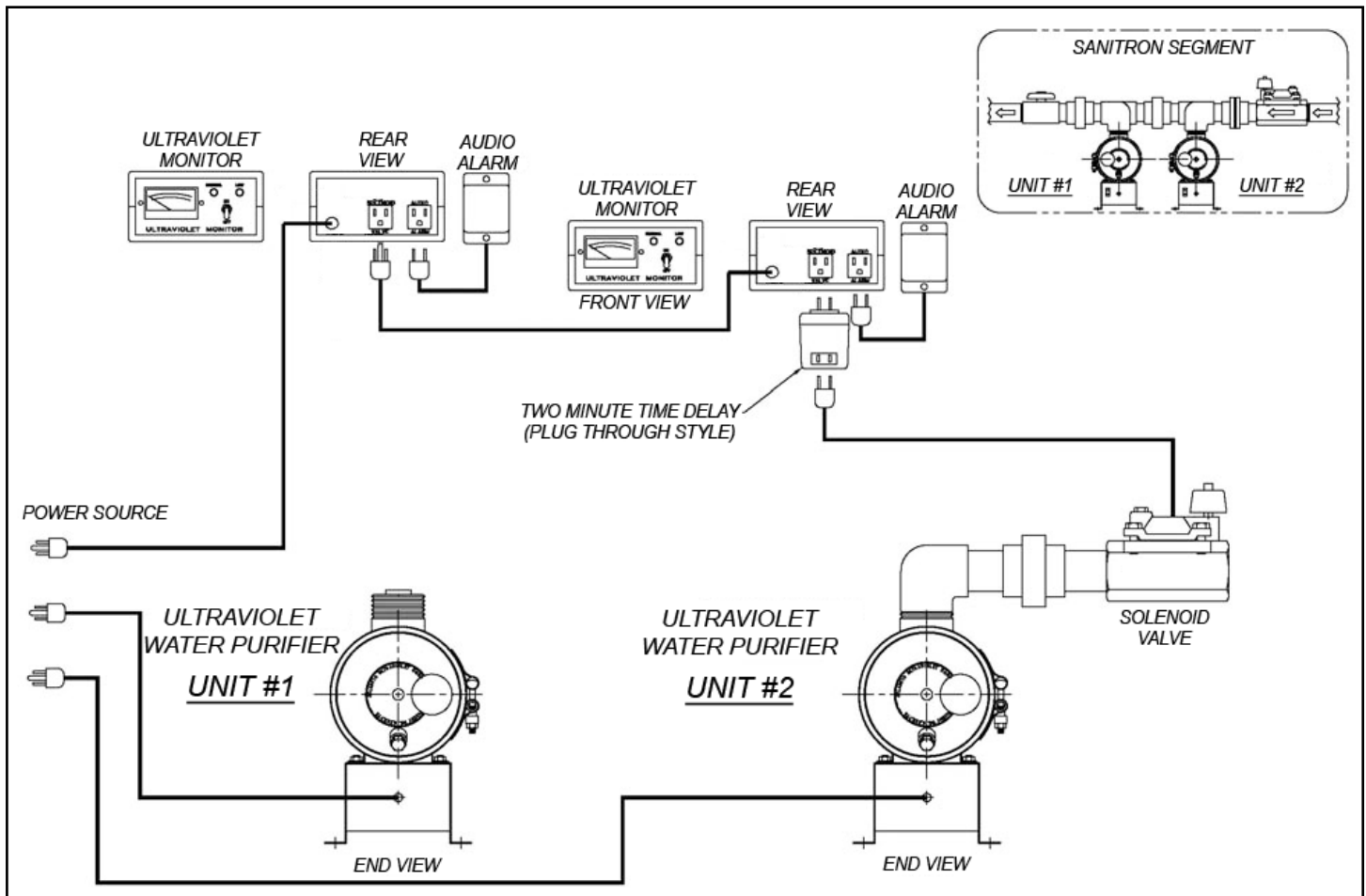


Figure 8 – Example of **SANITRON®** Model S5,000 and Larger Installation



\*Note: Analog Monitors Shown Above in Example.

## **GUARDIAN™ CONNECTIONS FOR SANITRON® MODELS S5,000 AND LARGER**

Analog **GUARDIAN™** Monitors can be installed on **SANITRON®** Model S5,000 and larger. If **Promate™** Optional Accessories are present, as shown in **Figure 8**, **Promate™** Solenoid Valves and ultraviolet monitors operate in series; if the ultraviolet intensity in either purifier falls below normal operating limits, the **Promate™** Solenoid Valve will close, stopping flow in that circuit. Example shows two Analog **GUARDIAN™** Monitors (See **Figure 8**).

## **TRIP SET POINT**

The Analog **GUARDIAN™** is calibrated at the factory to the ultraviolet output of the lamp, and the water purifier for which the monitor will be used. The monitor adjustments on the rear of the Analog **GUARDIAN™** Monitor (See **Figure 2**) should not be changed, except where necessary for wastewater applications. Contact the factory with specific requirements.



# TROUBLESHOOTING

## **“LOW” INTENSITY READINGS**

If, during the normal operation of the purifier, the intensity readings fall to an inadequate “LOW” level, take the following steps:

### **Verify Lamp Life**

1. **STER-L-RAY**® Lamp Replacement is recommended every 10,000 hours of operation, which is approximately 12 months of continuous service. Verify that your **STER-L-RAY**® lamp has less than 10,000 hours of use on it.
2. Replace **STER-L-RAY**® ultraviolet lamp in your water purifier with a new one or exchange the current ultraviolet lamp in your water purifier with a known good lamp. Follow instructions on how this task is performed in your Water Purifiers Owner’s Manual. If after performing this task, no improvement in the intensity reading is achieved, continue following the Troubleshooting Section of this manual.

### **Clean Quartz Sleeve in Water Purifier**

1. Clean the **CRYSTAL CLEAR**™ quartz sleeve; see the Owner’s Manual supplied with the water purifier for the proper cleaning method, and note whether the intensity readings improve.
2. If after cleaning the **CRYSTAL CLEAR**™ quartz sleeve, there is no significant improvement in the intensity readings, it may be necessary to clean the quartz rod in the sensor probe, continue following the “**Troubleshooting**” Section of this manual to clean the sensor probe quartz rod

### **Cleaning the Sensor Probe**

The Sensor Probe contains a small quartz rod which allows the UV rays from the lamp into the **GUARDIAN**™ Ultraviolet Monitor. After a period of time, dirt or sediment built up on the end of the quartz rod can stop the UV rays from passing into the ultraviolet monitor. Follow this section to clean the quartz rod in your sensor probe.



**IN ORDER TO PERFORM THIS TASK, BE SURE TO WEAR THE FOLLOWING SAFETY EQUIPMENT: SAFETY GLASSES OR A FACE SHIELD, AS WELL AS GLOVES**

As a precaution, consult your Owner’s Manual supplied with the water purifier to properly disconnect all power to your purifier and stop all water flow into and out of the unit before proceeding to the next step.

**⚠ WARNING** Disconnect power to water purifier.



**⚠ WARNING** Germicidal ultraviolet rays are harmful to eyes and skin. DO NOT look directly at the germicidal lamp.

1. Shut off water supply to the water purifier via the inlet and outlet shut off valves. Remove drain fitting and drain the chamber. Once the chamber is drained, remove any old sealing tape from the threads of the drain plug, re-wrap with 1/2” wide Teflon® thread sealing tape, reinstall and tighten the drain plug.
2. Disconnect power to the **GUARDIAN**™ Ultraviolet Monitor; remove from chamber by loosening the two set screws on the aluminum collar and lifting it free from probe body. (See Figure 6)
3. Unscrew the sensor probe by hand and remove from the chamber. (See Figure 5) . **\*NOTE: It is recommended, when servicing the sensor probe, to work in a clean, dry area.**
4. Take care not to damage the quartz rod, O-Ring or the threads of the probe body. Once the sensor probe has been removed from the purifier, inspect the end of the probe which faces into the purifier where the quartz rod protrudes out from the end cap. Make sure the quartz rod has not been damaged. Clean the end of the quartz rod with alcohol or a mild detergent, and rinse with clean water. Stubborn stains usually can be removed with a dilute hydrochloric acid. Make sure the end face is completely clear and free of all deposits. **\*NOTE: Follow all manufacturer’s instructions and precautions when handling chemicals.**
5. After cleaning, inspect the sensor probe, by making sure you can see directly down through the quartz rod to the other side. If it appears the top of the probe is also dirty follow steps (7,8&9) to clean the whole quartz rod. If all appears clean, skip to Step 10.
6. In order to clean the whole quartz rod, you must remove the quartz rod from the sensor probe. **Upon this disassembly, it is highly recommended to change the O-Ring which seals the end of the quartz rod between the probe cap and probe body, since it may have deformed over time. Contact Factory for Part Number and pricing.**

## TROUBLESHOOTING CONT.

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Figure 9 – Removing Quartz Rod from Standard Probe



7. Remove the quartz rod sensor probe cap from the probe body. Take care not to damage the quartz rod, O-Ring or the threads of the probe body. **\*Note: It is recommended, when servicing the sensor probe, to work in a clean, dry area.** (See Figure 9)
8. Once the quartz rod is removed, clean with alcohol or a mild detergent, and rinse with clean water. Stubborn stains usually can be removed with a dilute hydrochloric acid. Make sure both end faces are complete clear and free of all deposits. **\*NOTE: Follow all manufacturer's instructions and precautions when handling chemicals.** Once the quartz rod has been cleaned, handle the rod by the sides, to avoid getting fingerprints on the quartz rod faces.
9. Clean the probe body, by removing any dirt or deposits on all surfaces. The two outside o-rings should be inspected and can be replaced if worn or damaged.
10. Reassemble, all parts making sure each o-ring seats correctly in place as it was prior to disassembly. Make sure that the quartz rod is gently seated against the rear of the probe body, then secure the o-ring in the correct position between probe body and cap and tighten the probe cap by hand only. **DO NOT USE HAND TOOLS.** Tightening with hand tools may damage the quartz rod or O-Ring seal.
11. Reinstall sensor probe into the center fitting of the chamber and hand tighten.
12. **Slowly** restore water supply to the water purifier, pressurize, and check for leaks. Once it is determined that there are no leaks, inlet valve can be fully opened.
13. Reposition Ultraviolet Monitor on probe body and tighten set screws.
14. Restore power to the water purifier and **GUARDIAN™** Ultraviolet Monitor. If after the cleaning of the quartz rod, there is still no significant improvement in the ultraviolet intensity, as shown on the intensity meter, proceed to the “**Troubleshooting**” section of this manual.

### Verify Water Quality

 **⚠ WARNING** Disconnect power to water purifier and monitor.

1. Shut off water supply to the water purifier via the inlet and outlet shut off valves. Remove drain fitting and drain the chamber. Once the chamber is drained, remove any old sealing tape from the threads of the drain plug. Re-wrap with 1/2” wide Teflon® thread sealing tape. Reinstall and tighten the drain plug.

**⚠ WARNING** Germicidal ultraviolet rays are harmful to eyes and skin. **DO NOT** look directly at the germicidal lamp.

2. With the water purifier empty of water, restore power to the water purifier and **GUARDIAN™** Ultraviolet Monitor. With no water in the purifier check the readings on the ultraviolet monitor. If the intensity readings have now improved, consider having your water's UV Transmission level re-tested since this may indicate a change in your water quality.
3. If you are still unable to correct the problem of “LOW” intensity reading, consult our technical support staff.

### **MONITOR NOT OPERATING**

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A 5A, 5mm x 20mm, fuse protects the monitor from damage in the event that the **Promate™** Audio Alarm or **Promate™** Solenoid Valve outputs are short-circuited. The fuse can only be replaced by opening the case. **NOTE: Opening the case may void the warranty, and should only be attempted after contacting our technical support staff.**

## TECHNICAL SPECIFICATIONS

Table 2 – Technical Specifications

	Analog <b>GUARDIAN™</b> Specifications
Voltage:	120v or 220v +/- 10%
Frequency:	50/60/Hz (all models)
Output:	5 Amps max. on Analog / 3 Amps max. on Digital
Case Dimensions:	6" wide x 4" high x 3 3/4" deep
Case Materials:	UL Rated ABS Plastic
Weight:	2lbs (approximate)
Current: (No Load)	0.015A (120v) 0.0075 (220v)
Wattage:	1.8 Watts
4-20mA Output:	NA
Dry Contact Rating:	NA
Low-Voltage Audio Alarm:	NA

## REPLACEMENT PARTS

Table 3 – Replacement Parts

Part Number	Description
15-0039	<b>GUARDIAN™</b> Quartz Rod & O-Ring Sensor Probe Assembly
30-1060B	<b>GUARDIAN™</b> Standard Probe (Sensor Probe Assembly: 5mm Rod and Washer)

## PROMATE™ OPTIONAL ACCESSORIES

Table 4 – Optional Accessories

Part Number	Description
30-1014	<b>GUARDIAN™ ASSIST</b> Ultraviolet Monitor Extension
27-3344	<b>Promate™</b> Solenoid Valve: 3/4" 220-240v 2-230 PSI Brass Lead Free NSF
27-3340	<b>Promate™</b> Solenoid Valve: 3/4" 120v 60Hz 2-230 PSI Brass Lead Free NSF
27-3341	<b>Promate™</b> Solenoid Valve: 1" 120v 60Hz 2-230 PSI Brass Lead Free NSF
27-3345	<b>Promate™</b> Solenoid Valve: 1" 220-240v 2-230 PSI Brass Lead Free NSF
27-3342	<b>Promate™</b> Solenoid Valve: 1.5" 120v 60Hz 2-150 PSI Brass Lead Free NSF
27-3346	<b>Promate™</b> Solenoid Valve: 1.5" 220-240v 2-150 PSI Brass Lead Free NSF
27-3123	<b>Promate™</b> Solenoid Valve: 2" 120v 2-150 PSI Nickel Coated Brass
27-3127	<b>Promate™</b> Solenoid Valve: 2" 220/240v 2-150 PSI Nickel Coated Brass
30-1369B	<b>Promate™</b> Time Delay: 120v 50/60Hz 2-Minute (For Analog Guardians only)
30-0012B	<b>Promate™</b> Time Delay: 220v 50/60Hz 2-Minute (For Analog Guardians only)
30-0173	<b>Promate™</b> Audio Alarm: 120 - 240v AC 50/60Hz
30-1074A	<b>GUARDIAN™</b> Reducing Bushing for Sensor Probe (Includes 00-0282A O-Ring: Reducing Bushing Sensor Probe Buna-N)

## USER ASSISTANCE

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Atlantic Ultraviolet Corporation® makes every effort to ensure that the **GUARDIAN™** Ultraviolet Monitor is a product of superior quality and workmanship. This manual describes the installation, operation, and maintenance of the **GUARDIAN™** Ultraviolet Monitor.

Please read and become familiar with the contents of this manual before installing or using this unit. If after reading the manual you still have questions, or concerns, regarding the installation or use of this unit, contact our offices, weekdays between 8:30 am and 5:00 pm Eastern Time, at:

Atlantic Ultraviolet Corporation®  
375 Marcus Boulevard  
Hauppauge, New York, 11788  
Tel: 631.273.0500  
Fax: 631.273.0771  
Email: [Sales@AtlanticUV.com](mailto:Sales@AtlanticUV.com)  
Website: [Ultraviolet.com](http://Ultraviolet.com)  
[BuyUltraviolet.com](http://BuyUltraviolet.com)

## PATENT NOTICE

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No attempt has been made to determine the patent status of applications illustrated or described in this publication. Inclusion in this publication of any design or method of use, which may be patented, is not to be construed as promoting or sanctioning unauthorized use.

## WARRANTY & PRODUCT REGISTRATION

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**We warrant this product to the original owner to be free from defects in material and workmanship when installed in accordance with Atlantic Ultraviolet Corporation® specifications for a period of time as follows:**

**UV Water Purifier Chambers** – Type 316 stainless steel chambers will have a Twelve (12) year Limited Warranty on the stainless steel chamber, from the date of original purchase while the Type 304 stainless steel chambers will have a Six (6) year Limited Warranty on the stainless steel chamber.

**UV Air Disinfection Housing** – Three (3) year Limited Warranty on the metal housing, from the date of original purchase.

**Ballasts** – Three (3) year Limited Warranty, from the date of original purchase.

**UV Lamps, Monitoring Devices, Optional Accessories, and Other Parts** – One (1) year Limited Warranty from the date of original purchase.

Within the warranty period we shall repair or replace such products, which are returned to us with shipping charges prepaid and which are determined by us to be defective. This warranty will not apply to any product, which has been subjected to misuse, negligence or accident; or misapplied; or modified; or repaired by unauthorized person; or improperly installed. Warranty will be null and void if any of the product's original labels are removed. This Limited warranty excludes the cost of labor.

The Buyer shall inspect the product promptly after receipt and shall notify us at our main office in writing of claims, including claims of breach of warranty, within thirty (30) days after the Buyer discovers or should have discovered the facts upon which the claim is based. Failure of the Buyer to give written notice of a claim within the time period shall be deemed to be a waiver of such claim.

The provisions of the above warranty are our sole obligation and exclude all other remedies or warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose, whether or not purposes or specifications are described herein. We further disclaim any responsibility whatsoever to the customer, or to any person for injury to person, damage to, or loss of property or value caused by any product which has been subjected to misuse, negligence, accident; or modified or repaired by unauthorized persons; or improperly installed.

Under no circumstances shall the Company be liable for any incidental, consequential or special damages; losses or expenses arising from the contract for this product, or in connection with the use of, or inability to use, our product for any purpose whatsoever.

Be sure to register your product and validate purchase within 30 days — registration is simple and will take less than 2 minutes to do.

**NOTE – failure to register your purchase may jeopardize warranty.**

Go to [Ultraviolet.com](http://Ultraviolet.com) and scroll down to the bottom of the page, under “Trust” click the “Warranty Registration Form”, complete and click “Submit”. Or click on “Warranty Registration PDF” to download the warranty registration card as a PDF, complete and mail to us at 375 Marcus Boulevard, Hauppauge, NY 11788, or simply fax to 631-273-0771. If you prefer to register by phone, please call 631-273-0500 and our customer service staff will be glad to assist you.

For your convenience, record the following information below. The model and serial number can be found on a label located on the **GUARDIAN™** Ultraviolet Monitor. Keep this manual, along with proof of purchase, handy when contacting our offices.

Purchased From:	Date:
Model:	Serial No.: