

# Ultraviolet Water Purifier MONITORING OPTIONS

The **GUARDIAN™ Ultraviolet Monitor** visually indicates the level of germicidal ultraviolet energy that penetrates the quartz sleeve and water within the water purifier. The use of an ultraviolet monitor is recommended by the United States Public Health Service in “Criteria for the Acceptability of an Ultraviolet Disinfection Unit.”

The **GUARDIAN™ Ultraviolet Monitor** will detect reduction of ultraviolet levels due to:

- Fouling or deposits on the quartz sleeve.
- Poor ultraviolet transmission through the water. 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 due to usage or other cause. Lamp output gradually depreciates with use - lamp replacement is recommended once each year.

All **GUARDIAN™ Ultraviolet Monitors** provide output sockets for the operation of an optional solenoid valve or time delay/solenoid valve combination and optional audio alarm.

The **GUARDIAN™ Ultraviolet Monitor** is available in three models: Analog, Digital and Digital Remote. Voltage Configurations include 120V 50/60Hz, 220-240V 50/60 Hz, or 12VDC. Contact the factory with specific requirements. **NOTE:** Any **GUARDIAN™ Ultraviolet Monitor** (analog, digital or remote type) can be purchased and installed with the water purifier or at a later date for an existing installation.

The **Digital GUARDIAN™ Ultraviolet Monitor** can provide a programmed 2-minute time delay for solenoid valve operation. This feature is disabled when shipped. For the instructions to enable the time delay feature, contact the factory.

The **Digital GUARDIAN™ Ultraviolet Monitor** provides outputs for remote monitoring of the water purifier's operation. The outputs;

- 4-20mA Output: Provides current for remote display of ultraviolet intensity.
- Dry Contacts: Provides contacts for remote indication of ultraviolet trip levels.
- 12v DC Output: Provides power for a low-voltage audio alarm.

A modular cable and modular jack adaptor are required to interconnect between the **GUARDIAN™ Ultraviolet Monitor** and the remote monitoring devices. The modular cable and modular jack adaptor are not supplied and can be obtained from the factory, contact the factory with specific requirements.

The **GUARDIAN™ Ultraviolet Monitor** is mounted directly onto the water purifier. The sensor probe is installed into the sight port fitting of the water purifier. The collar on the bottom of the **GUARDIAN™ Ultraviolet Monitor** is secured over the sensor probe. Older model water purifiers may require a reducing bushing to properly mount the newer sensor probes. If unsure whether the reducing bushing is required, contact the factory.

The **Digital Remote GUARDIAN™ Ultraviolet Monitor** is intended for use in locations away from the water purifier it is monitoring. In all other respects, the remote operates in the same manner as the standard **Digital GUARDIAN™ Ultraviolet Monitor**. The ultraviolet sensor, instead of being mounted inside the monitor, is mounted in the sturdy, waterproof main sensor body, which when coupled with the lower sensor body becomes the remote sensor probe. A cable connects the remote sensor probe to a socket located on the back of the monitor. The standard cable length, supplied with the digital remote monitor, is 50-feet. The cable length may be extended. Please contact the factory with specific requirements. **Available for use with all SANITRON® and Mighty-Pure® models.**

**GUARDIAN™**  
ULTRAVIOLET MONITOR



Analog



Digital



Digital Remote

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Water Purifier	Analog			Digital			Digital Remote		
	120V 50/60Hz	220-240V 50/60Hz	12v DC	120V 50/60Hz	220-240V 50/60Hz	12v DC	120V 50/60Hz	220-240V 50/60Hz	12v DC
MightyPure®/ Sanitron®	30-8130	30-8131	30-8030	30-8132	30-8133	NA	30-8134	30-8136	NA
Sanitron® S2400B/C	30-8033	30-8034	NA	30-8113	30-8115	NA	30-8117	30-8119	NA

[www.ultraviolet.com](http://www.ultraviolet.com)



## **STERALERT™** LAMP STATUS ALARM

The **STERALERT™** Lamp Status Alarm monitors visible light emitted through the sight port plug of the water purifier and activates an audible alarm when visible light falls below acceptable levels.

- Easy installation, no tools required
- Mounts on the sight port plug
- Operates on a 9v battery
- Monitors the visible light emitted by the ultraviolet lamp (does not monitor the ultraviolet intensity)
- Warns of lamp or power failure
- Produces a high frequency tone, pulsed at two to three cycles per second
- Available with Remote Sounder
- Available with Dry Contact for Connection to PLC
- Optional 120v 60Hz Power Adapter available

### **Available for use with;**

- **SANITRON®** - all models
- **Mighty-Pure®** - all models



## **SENTRY™** SAFETY SENSOR

The **SENTRY™** Safety Sensor provides constant monitoring of the water purifier's ballast and germicidal lamp operation to give an indication of ballast and germicidal lamp status. The **SENTRY™** Safety Sensor is capable of operating an optional audio alarm and/or solenoid valve.

- Easy installation
- Plug **SENTRY™** into an electrical outlet, then plug water purifier into **SENTRY™**
- Operates optional Solenoid Valve and/or Audio Alarm
- Easily adaptable for use with other water purifier brands
- Warns of lamp failure
- Available for 120v 50/60Hz water purifiers operating with electronic ballasts

### **Available for use with most models;**

- **SANITRON®**
- **Mighty-Pure®**
- **MINIPURE®**
- **Bio-Logic®**

**Call for complete details.**

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