

# 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 or 60Hz, 220-240V / 50 or 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 Monitors** are mounted directly on to the water purifier. The sensor probe is installed into the sight port fitting of the water purifier. The aluminum 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.

**Remote GUARDIAN™ Ultraviolet Monitors** are 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 **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 become the remote sensor probe. A cable connects the remote sensor probe to a socket located on the back of the **GUARDIAN™ Ultraviolet Monitor**. The standard cable length, supplied with the remote **GUARDIAN™ Ultraviolet Monitor**, is 50-feet. The cable length may be extended. Please contact the factory with specific requirements.

**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
Mighty Pure™/Sanitron™	30-8130	30-8131	30-8030	30-0132	30-0133	NA	30-0134	30-0136	NA
Sanitron™ S2400B/C	30-8033	30-8034	NA	30-0113	30-0115	NA	30-0117	30-0119	NA



## **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 visible light only, does not monitor ultraviolet intensity.
- Produces a high frequency tone, pulsed at two to three cycles per second.
- Warns of lamp or power failure.
- 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. Indicator lights provide visual indication of ballast and germicidal lamp status.

- 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 in 120v 50/60Hz and 220 - 240v 50/60Hz, specify when ordering.

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

- **SANITRON®** - all models.
- **Mighty-Pure™** - all models.
- **MINIPURE™** - all models.
- **Bio-Logic®** - BIO-1.5 & BIO-3.

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