

GUARDIAN™ ULTRAVIOLET MONITOR



Analog Direct Mount Monitor



Standard Quartz Probe



Rear View



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.”

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 or ballast failure.
- Depreciation of the lamp output due to usage or other cause. Lamp output gradually depreciates with use. Lamp replacement is recommended once a year or every 10,000 hours.

All **GUARDIAN™ Ultraviolet Monitors** provide outputs to control the operation of an optional **Promate™ Solenoid Valve** and/or optional **Promate™ Remote Audio Alarm**.

The **GUARDIAN™ Ultraviolet Monitor** is available in three models: **Analog**, **Digital**, and **Digital Remote**.

All **GUARDIAN™ Ultraviolet Monitors** (analog, digital, or digital remote) can either be purchased and installed with the water purifier, or at a later date for an existing installation.

Analog - Direct Mount Monitor

Analog GUARDIAN™ Ultraviolet Monitor is available in two voltage configurations: 120v 50/60Hz and 220–240v 50/60Hz.

Analog GUARDIAN™ Ultraviolet Monitor is mounted directly to the water purifier using a standard quartz probe. Available for use with all **SANITRON®** and **MIGHTY+PURE®** models.



Promate™
Solenoid Valve*



Promate™
Audio Alarm*

*Note these Promate™ Optional Accessories are available for use with **GUARDIAN™ Analog, Digital, or Digital Remote Monitors.**

The Standard of Excellence In Ultraviolet
Manufacturers / Engineers / Sales / Service
Germicidal Ultraviolet - Equipment & Lamps

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GUARDIAN™

ULTRAVIOLET MONITOR

Digital Direct Mount Monitor



Standard Quartz Probe



Power Adapter



Rear View

Digital Remote Remote Mount Monitor



Rear View

Ultraviolet Water Purifier MONITORING OPTIONS

NEW Digital - Direct Mount Monitor

Digital GUARDIAN™ Ultraviolet Monitor: Two **NEW** Low Voltage Models are available in a 12v Model, and a 110/220v Model which uses a multi-plug configuration 12v adapter to operate. Other features of this model include a 2-minute delay for a solenoid valve operation, and an internal audio alarm. (Note: these features are disabled when shipped. See owners manual for instructions to enable these features.

This model also provides several outputs for remote monitoring of the water purifier operation:

- 4–20mA Output: Provides current for remote display of ultraviolet intensity.
- Dry Contacts: Provide contacts for remote indication of ultraviolet trip levels.
- 12v DC Output: Provides power for a low-voltage external audio alarm.
- RJ45 Modular Jack Adapter and RJ45 Modular Cable

The **Digital GUARDIAN™ Ultraviolet Monitor** is available in two mounting configurations: Mounted directly to the water purifier or remotely.

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.

An RJ45 modular jack adapter and an RJ45 modular cable are required to interconnect between the **GUARDIAN™ Ultraviolet Monitor** and other remote monitoring devices. The RJ45 modular jack adapter and the RJ45 modular cable is not included with the purchase of the **GUARDIAN™ Ultraviolet Monitor** and if required, may be purchased separately. The cable is available in three lengths – order the one which is best for your application (25ft., 50ft., or 100ft.). Contact the factory with specific requirements.

NEW Digital Remote - Remote Mount Monitor

Digital Remote GUARDIAN™ Ultraviolet Monitor: Intended for use in locations away from the water purifier it is monitoring. In all other respects, the remote monitor 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 10 meters (32.8-feet). The cable length may be extended. Please contact the factory with specific requirements. Available for use with all **SANITRON®** and **MIGHTY★PURE®** models.

All **GUARDIAN™ Ultraviolet Monitors** (analog, digital, or digital remote) can either be purchased and installed with the water purifier, or at a later date for an existing installation.

Water Purifier	Analog Direct Mount Monitor		Digital Direct Mount Monitor		Digital Remote Remote Mount Monitor	
	120v 50/60Hz	220v 50/60Hz	12v	110/220v	12v	110/220v
MIGHTY★PURE®/SANITRON®	30-8330	30-8331	30-8255	30-8251	30-8257	30-8253
SANITRON® S2400B/C	30-8333	30-8334	30-8254	30-8250	30-8256	30-8252

Note: All input voltages are +/- 10%

Lamp Status

STERALERT™

LAMP STATUS ALARM



Shown with Optional Power Adapter

Lamp & Ballast Status

SENTRY™

SAFETY SENSOR



Ultraviolet Water Purifier MONITORING OPTIONS

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 fails.

- 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 Dry Contact for connection to PLC
- Optional Remote Sounder available
- Optional 120v 60Hz Power Adapter available

Available for use with:

- **SANITRON®** - all models
- **MIGHTY★PURE®** - all models

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 **Promate™ Audio Alarm** and/or **Promate™ Solenoid Valve**.

- Easy installation
- Plug **SENTRY™** into an electrical outlet, then plug water purifier into **SENTRY™**
- Operates optional **Promate™ Solenoid Valve** and/or **Promate™ Audio Alarm**
- Easily adaptable for use with other water purifier brands
- Warns of lamp failure
- Available for 120v 50/60Hz and 220v 50/60Hz water purifiers operating with electronic ballasts

Available for use with most models, including:

- **SANITRON®**
- **MIGHTY★PURE®**
- **MINIPURE®**
- **Bio-Logic®**

Call: 631-273-0500 or Shop: BuyUltraviolet.com for complete details.

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