



REALTECH INC.

THE REAL UV254 SECURITY MONITOR

WHAT IS THE REAL UV254 SECURITY MONITOR?

The Real UV254 Security monitor provides continuous real time analysis to ensure the security and safety of a water supply 24/7. It is designed with patent pending Split-Sense Pro technology to provide many significant advantages while maintaining affordability.

KEY FEATURES:

- Patent pending Split-Sense Pro technology
- UV 254nm wavelength
- Continuous automatic calibration
- 10 - 15 second response time
- Sensitive detection of most organic contaminants
- 4-20mA output
- RS232 for data logging via PC
- Dry contacts for user configurable alarms
- NEMA 4X enclosure
- Evaluated by the U.S. EPA for security monitoring
- Operates from 24 VDC
- User friendly interface
- 2 year warranty
- Affordable

When it comes to ensuring the security of our drinking water, the Real UV254 Security monitor provides an accurate, easy to use, low maintenance and cost effective solution for rapidly detecting accidental or intentional contamination within the distribution system. The Real UV254 Security monitor was recently evaluated by the U.S. EPA's National Homeland Security Research Center (NHSRC) Technology Testing and Evaluation Program (TTEP).

The monitor's innovative Split-Sense Pro technology allows for a simple and effective means to overcome the challenges faced by other similar instrumentation providing a unique ability to automatically and continuously compensate for UV lamp fluctuations, thereby preventing a loss in accuracy over time and

significantly reducing the need for re-calibration. The Real UV254 Security's technology also allows for extremely sensitive measurement capabilities allowing for superior detection for even the highest purity of drinking water applications.

MEASURING SUDDEN CHANGES IN WATER QUALITY

UV254 provides an indication of the amount of UV light absorbed by organic contaminants in water. UV254 is the best detector of most organic chemicals in water and can detect sudden changes from a normal or baseline in 10 – 15 seconds. These changes in UV254 can indicate that the chemical composition of the water is different than normal signifying a potentially harmful contamination has occurred.

Specifications

The Real UV254 Security monitor's innovative design provides extreme sensitivity for detecting low concentrations of organic contaminants.



REAL UV254 SECURITY MONITOR TECHNICAL SPECIFICATIONS

RANGE	0 - 0.06 UVA 86-100% UVT
ACCURACY	± 0.05% FS
RESOLUTION	0.00001 UVA 0.001% UVT
UNITS	cm ⁻¹
PATH LENGTH	250 mm
SAMPLING TIME	10 seconds
FLOW RATE	300 – 1000 mL / min
CALIBRATION	In-situ zeroing to any sample with known UVT. No further calibration required.
CLEANING	• In-situ cleaning makes cleaning quick and easy • Automatic cleaning optional
SELF DIAGNOSTICS	Detection and diagnosis of internal system fault
OPERATOR INTERFACE	Five pushbuttons to control a comprehensive hierarchical menu system
DISPLAY	• 4 line x 20 character backlit LCD • Multi-colour indicator light for system alarms and warnings
ALARMS	Dry-contact terminals allow operator configurable alarms for: • High and low UVT/UVA setpoints • Low lamp output • Leak detected • Electrical and system fault
HUMIDITY CONTROL	Humidity sensor with large regeneratable desiccant system
PRESSURE RATING	100 PSI
OUTPUTS	• Self-powered 4-20 mA output configurable to either UVT or UVA • RS232 serial for data logging via PC
WAVELENGTH	253.7 nm
LIGHT SOURCE	Low pressure mercury UV lamp
LAMP LIFE	2 years
DIMENSIONS	17”h x 15”w x 7”d
ENCLOSURE	NEMA 4X, wall mountable
FLUID CONNECTIONS	1/4” tube push in fittings
ELECTRICAL	24 VDC 40W power adapter (accepts 90-250 VAC 50/60 Hz)
STORAGE TEMP	-20 to 60°C (-4 to 140°F)
OPERATING TEMP	0 to 45°C (32 to 113°F)
WARRANTY	2 year limited warranty
OPTIONS	• Real Clean Automatic Chemical Cleaning System II

