



# WaterWatch2950

## Organic Pollution and UV Transmissivity Monitor

PRODUCT DATASHEET

### APPLICATIONS

- Effluent Treatment Load Monitoring
- Final Effluent Monitoring
- Intake Protection
- COD Surrogate
- Spill Detection
- UV Treatment Power Control

### PRINCIPLE OF OPERATION

- Strobed Light Source providing UV254
- Light source
- Integral Turbidity Compensation

### FEATURES

- Self Cleaning Flowcell
- Reagent Free Operation

### INSTALLATION OPTIONS

- Backboard Mounting
- GRP Enclosure housing monitor, sensor and electrical isolation

### SUPPORT SERVICES

- Installation
- Commissioning
- Preventative Maintenance Contracts

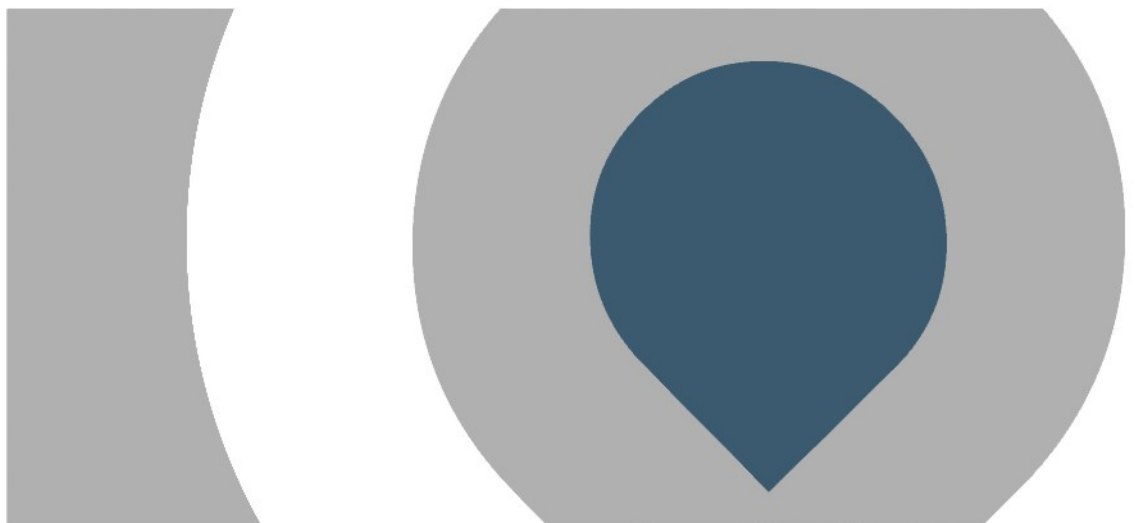


The use of the absorption of ultraviolet light by organic material in water is a well established principle for monitoring organic load in many water and wastewater treatment processes. Careful consideration of the likely pollutants is required to ensure that the use of a ultraviolet wavelengths is the most appropriate for the application, we are more than happy to help with this assessment.

The WaterWatch2950 uses a high quality strobed light source combined with an integrated Turbidity interference removal algorithm. The light source is stable with a long life providing stable measurements with the minimum of user intervention. Careful design of the flow through sensor chamber reduces the likelihood of fouling and the sensor is equipped with an automatic self cleaning system to keep the optical path clear.

The output signal from the system can be used as surrogate measurement of COD, however a full understanding of the sample matrix is necessary to validate the measurement. Partech are happy to work with you to gain a full understanding of the process to be monitored.

Alternatively the system can be configured as a transmissivity monitor; in this configuration the output can be used to modulate the power output of UV treatment systems or to provide an alarm indicating that the UV treatment may not be as effective as desired.



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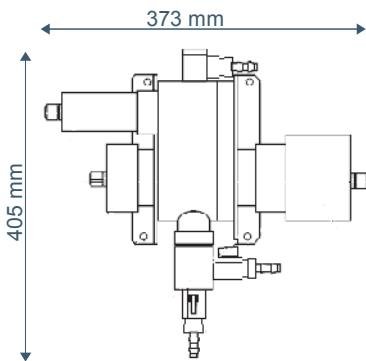
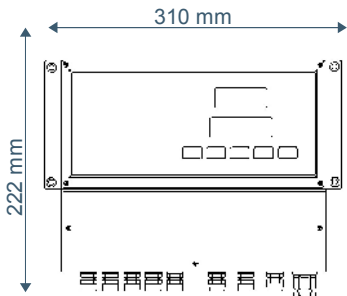




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#### Monitor

Power Supply

Weight

Enclosure Rating

Dimensions

Outputs

Cable Entries

Max Conductor Size

Display

115/230 VAC

2.5 kg

IP65

222x310x180 (hwxwd)

4-20 mA, Isolated, max load 750  $\Omega$

2x SPCO Relay, rated to 5A @12 VDC

5xM13, 1xM20

Cross section 4 mm<sup>2</sup>

4 Digit Red LED display for process variable

2 Line LCD display for Configuration and Operation

#### Sensor

Power Supply

Weight

Dimensions

Wetted Material

12VDC from Monitor

6.5 kg

405x373x136 mm (hwxwd)

Black Acetal, Polypropylene, Glass, Stainless Steel and PVC Connectors

#### Physical

Operating Temperature

Storage Temperature

Operating Pressure

Flowrate

Location

0 to 50 °C

-20 to 50 °C

1 Bar

0.5 to 5 l/min

Indoor or in protective enclosure

#### Measurement

Range

Resolution

Accuracy

Calibration

Light Source

Source Life

Measured Wavelength

Turbidity Correction

Path Length

Response Time

Self Cleaning

0-100 to 0-1,000 mg/l C

1 mg/l C

+/- 10%

Two Point

Xenon Strobe

30,000 hours typical

254 nm

400 nm

4.9 mm

3 minutes for 90% Step Change

Integral Wiper

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The company reserves the right to alter the specification without prior notice. E&OE

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