

MODEL UV80 – UV254 SENSOR

Intelligent Sensor Design for online measurement of Organic Load – Including correlated equivalent for COD, BOD & TOC For use with the ECD Universal T80 Transmitter

APPLICATION FIELDS

- Drinking water
- Municipal waste water
- Industrial waste water
- Effluent monitoring
- Power Plants
- River and surface water
- Rain overflow basin
- Dissolved organics in water



ADVANTAGES / FEATURES

Sensor Design with Digital Communication

Calibration data is stored in the sensor allowing field installation of a pre-calibrated sensor, Detachable cable simplifies the installation of pre-calibrated sensors.

High and Low Measuring Ranges

The sensor can be configured for High or Low measuring ranges

Advanced Wiper Design

Direct insertion UV sensors must have an advanced automated wipe system to avoid continuous manual maintenance cleanings

Easy Calibration

One- or two-point calibration that can be easily done in the field if needed.

ADVANCED SENSOR SURFACE WIPER DESIGN



Both sides of the optical path are kept clean with automatic wiper function

UV 254 nm Optical Technology

Utilizes the state-of-the-art UV 254 nm optical absorbance technology to measure organics in water

Rugged Sensor Material

Sensor housing construction utilizing strong corrosion resistant Stainless-Steel Material or optional Titanium

Factory tested, ready for installation

Just connect the transmitter or controller and sensor is fully operational.

Directly Interfaces with Transmitters and Controllers

The OIW80 works with the ECD T80 Universal Transmitter, with the LQ800 Multi-Channel Controller or directly with a control system/PLC via the sensor serial communication.

ABOUT UV ABSORPTION TECHNOLOGY

Many dissolved organic substances have spectral characteristics capable of absorbing UV light at the wavelength of 254 nm. A UV source produces UV light radiation that passes through the optical path. The receiver analyzes the UV pulses at two different wave lengths, a measurement wavelength (254 nm) and a reference wavelength which is not influenced by the presence of organic compounds.

TECHNICAL SPECIFICATIONS

Measured Parameter	UV 254nm, Abs254, COD eq, BOD eq, TOC eq
Measuring Principle	UV 254nm absorption
Measuring Range	Low Range Configuration - up to 370 mg/L CODeq High Range Configuration – up to 1000 mg/L CODeq
Mounting	¾" MNPT Threads at back of sensor
Operating Temperature	41 to 113°F (5 to 45°C)
Dimensions	8.6 in H x 1.98 in Dia / 218 mm H x 50.2 mm Dia
Weight	1.7 lbs / 0.8 kg
Power supply	Internal from T80 Transmitter or LQ800 Controller Direct DC power
Outputs / Digital Communication	Modbus RTU RS485
Installation	Flow Cell, Fast Loop Reservoir, or Direct Immersion Standpipe
Ingress Protection	IP68

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