

MODEL OIW80 – Oil in Water Sensor

Intelligent Sensor Design with digital communication for continuous online measurement of Oil in Water

For use with the ECD Universal T80 Transmitter

APPLICATION FIELDS

- Drinking water
- Industrial effluent monitoring
- Ocean, River, Lake Studies
- River and surface water
- Waste 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.

Multiple Measuring Ranges

The sensor can be easily configured for various ranges of up to 30 ppm

Advanced Wiper Design

Direct insertion Oil in Water 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



Sensor shown with oil film adhering to sensor, but optics are kept clean with automatic wiper function

Fluorescence Sensing Technology

Utilizes the state-of-the-art Fluorescence technology to measure oil in water, which is typically proportional to its concentration

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 OIL in WATER FLUORESCENCE TECHNOLOGY

The measuring principle is based on fluorescence: when lighted at a specific wavelength (excitation), some chemicals re-emit light (emission) at a longer wavelength. Very few chemicals are fluorescent giving a highly selective measurement.

TECHNICAL SPECIFICATIONS

Measured Parameter	Oil in Water
Measuring Principle	Fluorescence
Measuring Range	0 to 30 ppm (mg/L)
Flow rate in fast loop reservoir or ECD Flow Cells	80-500 mL/minute
Operating Temperature	41 to 113°F (5 to 45°C)
Dimensions	5.8 in H x 1.98 in Dia / 147 mm H x 50.2 mm Dia
Weight	1.4 lbs / 0.6 kg
Power supply	Internal from T80 Transmitter or LQ800 Controller Direct power 8 to 24 VDC
Outputs / Digital Communication	Modbus RTU RS485
Installation	Flow Cell, Fast Loop Reservoir, or Direct Immersion Standpipe
Ingress Protection	IP68

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