



OxyTechw² RDO Pro-X Sensor

Optical Dissolved Oxygen Sensor

PRODUCT DATASHEET

APPLICATIONS

Activated Sludge Control
Drinking Water Processing
Reservoir Water Quality
River Monitoring

MEASUREMENT PRINCIPAL

Luminescent Optical Technology

FEATURES

No drift – no calibration required
24 month cap life
Fast Response

BENEFITS

Automated Aeration Control
Low Cost of Ownership

COMPATIBLE MONITOR

7300w² Monitor

MOUNTING OPTIONS

Flexible Joint for Self Cleaning

ALTERNATIVE SENSORS

OxyTechw² GAL

PRODUCT WARRANTY

Probe – 36 months
Cap – 24 months



The OxyTechw² RDO Pro-X Sensor uses the latest optical technology for measuring dissolved oxygen (DO) in demanding wastewater, drinking water, industrial effluent and surface water environments.

The sensor uses optical sensing techniques that provide a fast response and do not need a flowing sample to operate. There is no need for routine calibration, enabling manual intervention to be kept to an absolute minimum. Periodic validation of the measurement can be done as part of standard quality assurance performed by the operator. The sensor uses an extended life cap that does not have a finite life, though replacement is recommended every two years. When replacement of the cap is required the operation takes only a few minutes with no need to enter complex set up codes and no need to re-calibrate.

The need for manual cleaning of the sensor is kept to a minimum through use of Partech's FlexTech mounting system which places the sensor below the surface of the tank away from the floating fats and grease whilst keeping the sensor face moving to prevent the build up of a biofilm.

The sensor is part of the WaterWatch² family and works with our 7300w² Monitor and can be combined with our TurbiTechw² LA sensor to provide an extremely cost effective package for controlling activated sludge plants.

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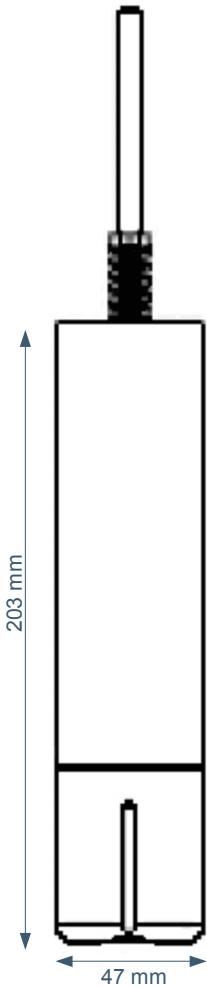
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Physical

Dimensions

Weight

Protection Class

Enclosure Material

Cable Entries

Cable Type

Cable Length

Service Requirement

47 mm diameter x 203 mm long

0.8 kg (inc 10 metres of cable)

IP68 (IP67 with cap off)

Body - ABS, Titanium Temperature Probe with Polyurethane Cable,
Cap - ABS, Polycarbonate/Poly (methyl/methylacrylate)

Integral Cable Gland

4 core

10 metres standard, 100 metres maximum

Membrane Cap Replacement - recommended every 24 months

Periodic cleaning and verification are required at a frequency determined by the application

Environmental Data

Operating Temperature

Storage Temperature

Location

Pressure Rating

Flow Rate

0 to 50°C

Probe: -5 to 60°C, Cap I to 60°C

Indoor/Outdoor

210 metres

No flow necessary

Interface to Monitor

Power Supply

Type

12 Volts from Monitor

RS485

Measurement

Range

Accuracy

0 - 50.00 mg/l or ppm

+/- 0.1 mg/l on range 0-8mg/l

+/- 0.2 mg/l on range 8-20 mg/l

+/- 10% Reading 20 to 50 mg/l

0.01 mg/l

Resolution

Response Time

Measurement Principle

Light Source

Temperature Measurement

Temperature Range

Temperature Accuracy

Temperature Resolution

T90 < 45 seconds, T95 < 60 seconds @ 25° C

Blue/Red Luminescence Quenching

Blue LED

Thermistor

0 to 50°C

+/- 0.1°C

0.01°C

Mounting

Installation Type

Mounting Shaft

Handrail Attachment

Dip

1, 2 or 3 metres

See Document 223980DS, 224567DS, 132581DS, and 132572DS

Order Codes

Part No Description

226770 OxyTechw² RDO Pro-X (Cable Length: 10 metres)

226771 OxyTechw² RDO Pro-X (Cable Length 20 metres)

Publication No: I3352DS-Iss04

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

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