



# OxyTechw<sup>2</sup> GAL

## Galvanic Dissolved Oxygen Sensor

PRODUCT DATASHEET

### APPLICATIONS

Activated Sludge Control  
Drinking Water Processing  
Reservoir Water Quality  
River Monitoring

### MEASUREMENT PRINCIPAL

Galvanic Cell

### FEATURES

No drift  
Reduced Maintenance  
Fast Response

### BENEFITS

Automated Aeration Control  
Low Cost of Ownership

### COMPATIBLE MONITOR

7300w<sup>2</sup> Monitor

### MOUNTING OPTIONS

Flexible Joint for Self Cleaning

### ALTERNATIVE SENSORS

OxyTechw<sup>2</sup> OPT



The OxyTechw<sup>2</sup> GAL Sensor has been designed to provide highly reliable Dissolved Oxygen measurements the sensor employs the traditional galvanic principle. The rugged 100 micron, HDPE membrane has been selected to provide exceptional resistance to damage. This, combined with Oxyguard's unique electrolyte and anode material provides long term stability of 3 years and longer without the need for sensor refurbishment or membrane replacement.

For installation in activated sludge plants (ASP's) we recommend that the sensor is installed using our specially designed mounting system, with a flexible joint in the mounting shaft. The flexible joint moves the sensor in the process, keeping the membrane clean by reducing bio-fouling without the use of a compressor and with the added benefit of allowing rags to fall away from the assembly. This motion is similar to that achieved by using a floating ball assembly, with the added advantage of placing the sensor below the surface of the liquor. This means that the sensor is below the level of the floating fats and greases that accumulate at the surface and results in the Dissolved Oxygen reading being more representative of the whole tank.

The OxyTechw<sup>2</sup> GAL provides the reliable, accurate measurement that is required to operate activated sludge plants at the optimum Dissolved Oxygen concentration, maintaining the balance between the running costs of blowers and aerators and the need to produce high quality effluent.



Call us on 01726 879800 [www.partech.co.uk](http://www.partech.co.uk)

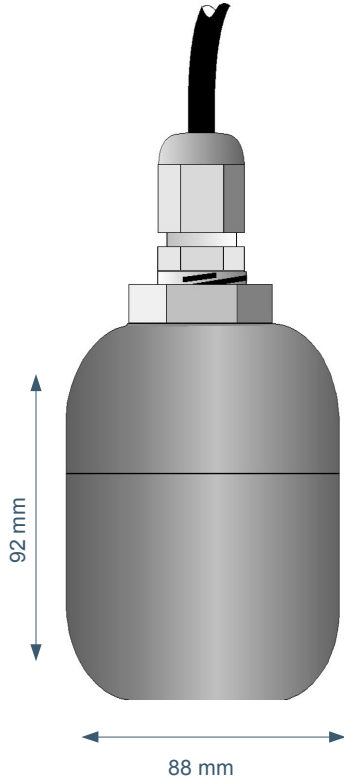




# OxyTechw<sup>2</sup> GAL

## Galvanic Dissolved Oxygen Sensor

PRODUCT DATASHEET



### Physical

Dimensions

Weight

Protection Class

Enclosure Material

Cable Entries

Cable Type

Cable Length

Service Requirement

58 mm diameter x 88 mm long (excluding gland)

0.5 kg (inc 10 metres of cable)

IP68

Polyoxymethylene (POM)

Integral Cable Gland

4 Core, 2 Twisted Pair, 5mm O/D Polyurethane Coated

10 metres standard, 100 metres maximum

No routine servicing

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

### Environmental Data

Operating Temperature

Storage Temperature

0 to 50°C

-10 to 60°C

Location

Indoor/Outdoor

### Electrical

Power Supply

12 Volts from Monitor

### Interface to Monitor

Type

RS485

### Measurement

Accuracy

Repeatability

Measurement Principle

Better than +/-2% Reading

Better than +/-1% FSD on real sample

Galvanic Oxygen Partial Pressure Cell, Self Polarizing, Self Temperature Compensating

Temperature Measurement

NTC

Response Time

90% of value in less than 90 seconds

Pressure Rating

5 Bar

Flow Rate

No flow necessary

Range

0 – 20.00 mg/l or ppm

0 – 200 %Sat

### Mounting

Installation Type

Dip, Flowcell

Mounting Shaft

0.5 to 4 metres in 0.5 metre increments

Handrail Attachment

See Document 132258DS for options

### Order Codes

#### Part No Description

224006 OxyTechw<sup>2</sup> GAL Sensor  
(Cable Length: 10 metres)

224007 OxyTechw<sup>2</sup> GAL Sensor  
(Cable Length: 20 metres)

Publication No: 132254DS-Iss05

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

Call us on 01726 879800 [www.partech.co.uk](http://www.partech.co.uk)

