



# 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  
Sensor Refurbishment every 3 years  
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 self-cleaning mounting system, with a flexible joint in 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.

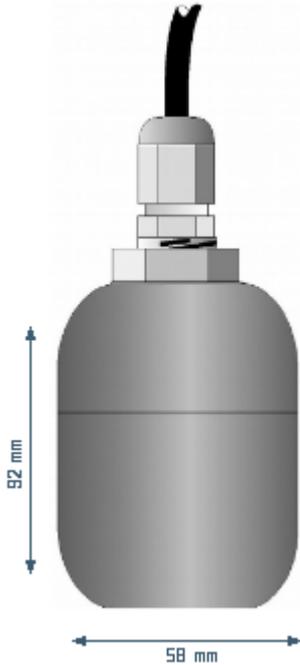
Call us on + 44(0) 1726 879800 [www.partech.co.uk](http://www.partech.co.uk)



# OxyTechw<sup>2</sup> GAL

## Galvanic Dissolved Oxygen Sensor

### PRODUCT SPECIFICATION



#### Physical

Dimensions  
Weight  
Protection Class  
Enclosure Material  
Cable Entries  
Cable Type  
Cable Length  
Service Requirement

58 mm diameter x 92 mm long (excluding gland)  
0.6 kg (inc 10 metres of cable)  
IP68  
Polyoxymethylene (POM)  
Integral Cable Gland  
4 core, 2 Twisted Pair, 5 mm 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

0 to 50°C

#### Interface to Monitor

Power Supply  
Sensor Output

12 Volts from Monitor  
ModTechw<sup>2</sup>, RS485

#### Measurement

Range  
Accuracy  
Measurement Principle  
Temperature Measurement  
Pressure Rating (Depth)  
Flow Rate

0 - 20.00 mg/l or ppm  
0 - 200 %Sat  
Better than ±2% Reading  
Galvanic Oxygen, Self Polarizing, Self Temperature Compensating  
NTC  
2 Bar  
1 cm/sec

#### Mounting

Installation Type  
Mounting Shaft  
Handrail Attachment

Dip, Flowcell  
1.0 to 3 metres in 1 metre increments  
See Document 223980DS, 224567DS, 132582DS, 132570DS 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-Iss08

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

Call us on + 44(0) 1726 879800 [www.partech.co.uk](http://www.partech.co.uk)



Address: Rockhill Business Park, Higher Bugle, St Austell, Cornwall PL26 8RA, UK E: [info@partech.co.uk](mailto:info@partech.co.uk)