



# WaterTechw<sup>2</sup> PHEVT

## Combined pH, Redox and Temperature Sensor

PRODUCT DATASHEET

### APPLICATIONS

Activated Sludge Control  
Final Effluent Monitoring  
Intake Protection  
Low Conductivity Water  
River Monitoring

### MEASUREMENT PRINCIPAL

Combined Electrode with Plastogel®  
Electrolyte

### FEATURES

Calibration Data stored in sensor  
Combined pH, Redox and Temperature  
Fast Cartridge Replacement

### BENEFITS

Automated Aeration Control  
Low Cost of Ownership

### COMPATIBLE MONITOR

7300w<sup>2</sup> Monitor

### ALTERNATIVE SENSORS

Electrodes for specialist application are  
available on request



The WaterTechw<sup>2</sup> PHEVT Sensor has been designed to provide highly reliable pH, Redox and Temperature measurements. The electrode uses Ponsel's Plastogel® technology, the long life reference increases the life of the electrode, reducing maintenance and operating costs.

The electrode has been designed to work in even the most difficult applications, from pure mountain streams with conductivity as low as 20  $\mu\text{S}/\text{cm}$ , through lakes and river, seawater and wastewater with conductivity of 200  $\text{mS}/\text{cm}$ . By having such a flexible sensor users can adopt the WaterTechw<sup>2</sup> PHEVT as the standard sensor for water quality monitoring.

For installation in applications where fouling is anticipated 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, reducing bio-fouling and 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 liquid. In applications where fouling is not expected or where there is insufficient space alternative mounting arrangements are available.



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





# WaterTechw<sup>2</sup> PHEVT

## Combined pH, Redox and Temperature Sensor

PRODUCT DATASHEET



### Physical

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

27 mm diameter x 207.5 mm long  
0.35 kg (inc 10 metres of cable)  
IP68  
PVC Body, pH Glass, Platinum  
Integral Cable Gland  
6 core, Polyurethane Coated  
10 metres standard, 100 metres maximum  
Electrode Cartridge Replacement  
Periodic calibration and cleaning are required at a frequency determined by the application

### Environmental Data

Operating Temperature  
Storage Temperature

0 to 50°C  
0 to 60°C

Location

Indoor/Outdoor

### Electrical

Power Supply

12 Volts from Monitor

### Interface to Monitor

Type

RS485

### Measurement

Accuracy  
Resolution  
Range

pH	Redox	Temperature
+/- 0.05 pH	+/- 2mV	+/- 0.5°C
0.01 pH	0.1 mV	0.01°C
0 – 14 pH	-1000 – 1000 mV	0 – 50°C

Measurement Principle

pH: Combined electrode (pH/reference), Ag/AgCl ref Gel Electrolyte (KCl)  
Redox: Combined electrode (Redox/reference), Platinum Tip, Ag/AgCl ref, Gel Electrolyte (KCl)  
Temperature: NTC

Pressure Rating

5 Bar

### Mounting

Installation Type  
Mounting Shaft  
Handrail Attachment

Dip  
0.5 to 4 metres in 0.5 metre increments  
See Document I32258DS for options

### Order Codes

Part No	Description
223908	WaterTechw <sup>2</sup> ™ PHEVT Sensor (Cable Length: 10 metres)
223967	WaterTechw <sup>2</sup> ™ PHEVT Sensor (Cable Length: 20 metres)

Publication No: I32245DS-Iss03  
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)

