



WaterTechw² FCL Sensor

Free Chlorine Sensor

PRODUCT DATASHEET

APPLICATIONS

Drinking Water Treatment
Wastewater Treatment
Industrial Processes
Swimming Pools

MEASUREMENT PRINCIPLE

Amperometric membrane with
reference electrode

FEATURES

Reference Electrode for Zero Drift
pH independent
Compatible with WaterWatch² Range

BENEFITS

Simple to install and maintain
No pH correction required
No Buffers or Reagents required
Low Cost of Ownership

COMPATIBLE MONITOR

7300w² Monitor



The WaterTechw² FCL sensor is ideal for monitoring free chlorine in drinking water, seawater, process water, swimming pool, wastewater applications.

The enhanced amperometric sensor is enhanced with a third, reference electrode which eliminates zero drift and the unique design means that pH compensation is not usually required. This combination of features removes the needs for buffers and reagents and keeps operator maintenance to a minimum and delivers exceptionally low cost of ownership.

The sensor integrates with the WaterWatch² product range and the 7300w² Monitor allowing the sensor to be combined with pH, Redox, Turbidity and other measurements, keeping installation costs and space requirements down. The 7300w² monitor is rightly recognised as one of the easiest to use monitors on the market avoiding any need for specialist training.

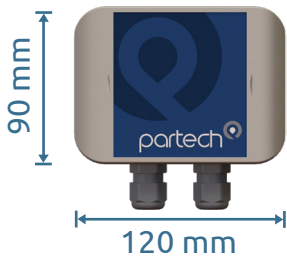
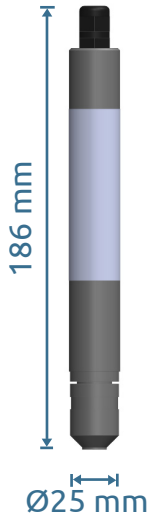
Call us on + 44(0) 1726 879800 www.partech.co.uk



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Physical

Dimensions

Protection Class
Electrode Body
Interface Enclosure
Cable Entries
Cable Type: To monitor
Cable Length: To monitor
Cable Type: To electrode
Cable Length: To electrode

Electrode Body - 220 mm x 25 mm diameter
Interface Enclosure - 120 mm x 110 mm x 45 mm
IP65
PVC-U, PEEK, Stainless Steel, microporous hydrophilic membrane
ABS
Integral Cable Gland
4 core, 2 twisted pair, 5 mm O/D polyurethane
1 metre standard, 100 metres maximum
2 core, twisted pair, 5 mm O/D polyurethane
1 metre

Environmental Data

Operating Temperature
Pressure

0 to 45°C
3 Bar, no pressure surges and/or fluctuations

Electrical

Power Supply
Interface to monitor

12 Volts from monitor
RS485

Measurement

Range
Resolution
Measurement Principle

0 to 5ppm (mg/l)
0.01 ppm (mg/l)
Membrane covered, amperometric, 3-electrode system
EPA 334.0 Compliant

Response Time
pH Range
Interferences
Service Requirement

T90 = approx. 2 minutes
4 to 9 pH
Chlorine Dioxide, Ozone
Membrane & electrode replacement every 12 months
Regular calibration is required by means of analytical determination

Order Codes

Part No Description

- 229735 WaterTechw² FCL Sensor (Range: 0 to 5 mg/l, 1 metre cable)
- 229823 WaterTechw² FCL Sensor Service Pack
- 229825 WaterTechw² FCL Sensor Replacement Electrode (Range: 0 to 5 mg/l)

Publication No: 229735DS-Iss02

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

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