



CHEMICAL SUPPORT SYSTEMS

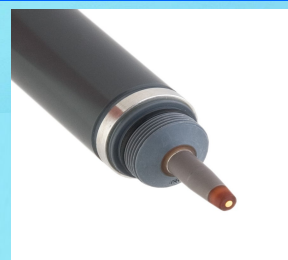
DESIGN / ENGINEER / MANUFACTURE / INSTALL

Total and Free Chlorine sensor

Our range of Chlorine analyzers, residual Chlorine controllers and Chlorine monitors utilise the very latest and best chlorine sensors available in the world today. They are membrane devices which are insensitive to changing pH, use no reagents, are extremely stable, have reduced maintenance and reduced whole life costs.

- Amperometric sensors – accepted under US EPA method 334.0
- No chemical reagents – lower cost of ownership
- Stable to reliable – excellent process control
- Suitable for all potable, process and salt waters
- Up to 6 months between maintenance
- Up to 3 months between calibration

To be used in combination with CSS Analyser



The membraned amperometric chlorine sensors, are enhanced with a third, reference electrode which eliminates zero drift. Its unique design means that pH correction is not usually required at all, completely eliminating reagents.

Anywhere you have a requirement to measure residual free or total chlorine is a suitable application for the Chlorine sensor. It is particularly suited to working in sites where reliability and ease of use are most important.

Can be installed in a variety of auxiliary flow cells and self-cleaning devices.

Specification

Chlorine Sensor probe

Type

Membrane covered potentiostatic chrono amperometric three-electrode system

Measurand

Total or Free chlorine

Range

0.01-2mg/l, 0.01-5mg/l, 0.01-10mg/l, 0.01-20mg/l

Resolution

0.01mg/l (ppm) (0.1 on 0-200mg/l readings)

Reproducibility

Better than $\pm 0.05\text{mg/l}$

Stability

-2% per month (without calibration)

Working electrode

Gold

Counter electrode

Stainless Steel

Reference electrode

Silver / Silver Halide

Membrane material

Micro-porous hydrophilic membrane

Flow rate

Approximately 0.5 l/min

Temperature range

>3 - <50°C

Temperature compensation

Automatically by an integrated thermistor

pH range

pH 4 to pH 10

First-polarisation time

120min

Re-polarisation time

30min

Calibration

Manual using DPD

Housing material

PVC, silicone, polycarbonate, stainless steel

Maintenance intervals

Membrane – 12 to 18 months

Electrolyte – 3 to 6 months

Interferences

High levels of other oxidants such as Ozone and Chlorine Dioxide