



CHEMICAL SUPPORT SYSTEMS

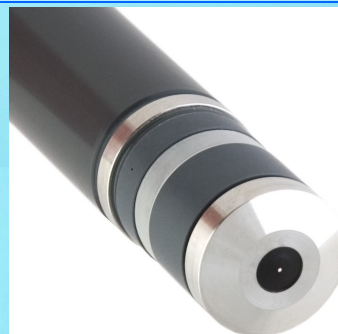
DESIGN / ENGINEER / MANUFACTURE / INSTALL

Chlorine Dioxide monitor

Our Chlorine Dioxide monitors utilise the very latest and best Chlorine Dioxide Sensor available in the world today. It is a membraned device which is insensitive to chlorine, uses no reagents. Is extremely stable, has reduced maintenance and reduced whole life costs.

- Amperometric sensors – continuous online ClO₂ analyzer
- No chemical reagents – lower cost of ownership
- Stable and reliable – excellent process control
- Suitable for all potable and process waters
- No interference from residual chlorine
- Tolerant of water containing detergents
- Chlorite sensors also available

To be used in combination with CSS Analyser



The membraned amperometric chlorine dioxide sensor is a two electrode sensor which operates at an elevated applied potential which in turn eliminates zero drift. It's unique design means no reagents or buffers are required at all and calibration is a simple one point (no zero required) operation.

Anywhere you have a requirement to measure residual ClO₂ is a suitable application for the Chlorine Dioxide sensor. With its reduced maintenance, reduced calibration and reduced spares requirements the ClO₂ analyzers are the most cost-effective available

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

Specification

Chlorine Dioxide Sensor Probe

Application

All kinds of water treatment (e.g. bottle washing machine, CIP-plants)

Type

Membrane covered, amperometric 2-electrode system

Measurand

Chlorine Dioxide

Sensor ranges

0-0.50mg/l; 0-2mg/l; 0-5mg/l; 0-10mg/l; 0-20mg/l

Resolution

0.01mg/l

Repeatability

<1%

Working Temperature

>3 up to 50°C

Temperature compensation

Automatic, by an integral temperature sensors(temp changes<5°C)

Max. allowed working pressure

1.0 bar, no pressure impulses and/or vibrations

Flow rate

Approx 0.5 l/min (min 0.2 l/min)

pH range

pH1 to pH11

Run-in time

First start up approx 1 hr

Response time

T₉₀ approx 1.5mins

Zero point adjustment

Not necessary

Calibration

Manual using a suitable ClO₂ test kit, every 1 week to 3 months, application dependent

Interferences

Cl₂ does not interference, O₃ is measured with a sensitivity 25 times higher than ClO₂. 1% Sulfuric acid or 1% nitric acid in the water have no influence to the measuring behaviour

Dimensions

Diameter approx 25mm, Length approx 175mm (4-pole screw connector) approx 220mm (4-20mA, 2-pole terminal)

Storage

Frost Protected, dry and without electrolyte no limit. Used membrane caps cannot be stored

Maintenance

Change of membrane cap – yearly (dependent on water quality)
Electrolyte – every 3 to 6 months