

# Capital Controls®

## GS4000 Chlorine Dioxide Generator

The Capital Controls GS4000 chlorine dioxide generator from Severn Trent Services offers a simple and effective means of generating a low strength Chlorine Dioxide solution. The GS4000 is capable of generating between 2g/day to 10g/hr in a single system using two commercially available reagents, hydrochloric acid (8.5%) and sodium chlorite (7.5%).

### Features

- Ranges in size from 2g/day to 10g/hour
- Safe on-demand production of chlorine-free chlorine dioxide
- Simple, reliable operation
- Fully automatic or manual option
- Low maintenance

### Applications



#### Potable Water

- Primary Disinfection
- Total THM Reduction
- Iron and Manganese Removal



#### Cooling Water

- Broad Spectrum Biocide Action without pH Constraints and Corrosion Problems



#### Food and Beverage Processing

- Microbiological Control at Low Concentrations without Taste and Odour



#### Wastewater

- Chemical and Pesticide Oxidation / Reduction
- Odour Control in Scrubber Systems
- Bacteria Control



#### Building Services Water Hygiene

- BISRIA Recommended for the Control of Legionella in Hot and Cold Water Systems



#### Paper Industry

- Bacteria Control in Paper Machines

#### Ultra Pure Water

- Destroys Biofilm in Process Pipework Systems



## OPERATING DESCRIPTION

Chlorine dioxide is generated by the reaction of two commercially available reagents, hydrochloric acid (8.5%) and sodium chlorite (7.5%). Two peristaltic pumps control the automatic addition of the two reagents into a reaction tower where the chlorine dioxide is generated. The solution is then diluted to a 1g/l solution with carrier water as it flows from the reaction tower into a storage chamber. The storage vessel section is vented to atmosphere via a carbon filter which removes any residual chlorine dioxide vapours.

The microprocessor automatically controls the chlorine dioxide generation process from reagents filling, dilution and storage. Capable of accepting a START/STOP commands the system is capable of remote operation. The controller also accepts up to four digital inputs from external alarms such as reagent level sensors.

## TECHNICAL SPECIFICATION

Production Capability	2 g/day up to 10 g/hr
Chlorine Dioxide concentration	1 g/l as Chlorine Dioxide
Ambient Temperature	5 - 45°C
Power Requirements	230Vac ±10%, 50 hz
Max power consumption	50 VA
Weight	24 kg
Dimensions	800mm High x 600mm Wide x 150mm Deep

### Controller

Protection	IP65
Display	16+16 characters LCD, with back light
Digital Inputs	8
Digital Outputs	8
Standard Alarms	System Running/System Failed/System Alarm
Chlorine Dioxide Pump Control	Start/Stop signal
External alarm inputs	up to 4

### Connection Details

Water Inlet	½" BSP(F)
Solution Outlet	½" BSP(F)
Drain	½" BSP(F)
Vent	10 x 12mm Poly tubing connection

### Materials of Construction

Backboard	uPVC
Reaction tower and storage chamber	uPVC
Internal tube & Fittings	Teflon/PVDF/PVC/PE

### Severn Trent Services

Arley Drive  
Birch Coppice Business Park  
Dordon, Tamworth B78 1SA  
Tel +44 (0) 182 726 6000  
Fax +44 (0) 182 726 6099  
[salesenq@severntrentservices.co.uk](mailto:salesenq@severntrentservices.co.uk)

### Represented by:

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