

# ChloriDos™ Advance



The ChloriDos™ Advance system accurately generates, doses and monitors Chlorine Dioxide into water services. It is used to disinfect water and control legionella and other potentially harmful pathogens.

ChloriDos™ technology generates in situ, within a safe, self contained reactor unit, Chlorine Dioxide concentrates between 1% and 5% either by acid/chlorite method or stabilised Chlorine Dioxide precursor and activator. The Chlorine Dioxide solution is then further diluted into a motive water stream and injected into the process on site.

Installations are typically either recirculating a water storage tank or rising main.

## Chlorine Dioxide generation, dosing and monitoring

### General Technical Data

- Conex Dia 1 analyser/controller
- Aquacell with hydro mechanical cleaning
- Measuring range 0-10mg/l ClO<sub>2</sub>
- Analogue or digital water meter inputs
- Water meter overdose protection
- Unique Boost feature to maintain disinfection levels during low flow periods
- Volt free outputs for connection to BMS systems
- Internal contactor for 0.37kW circulation pump (pump optional)
- Safety flow sensors in sample and dilution flows
- Sight glass for visual ClO<sub>2</sub> indication
- Max operating pressure 8 Bar (sample cell 3 Bar)
- Enclosed reactor with flush facility
- Remote alarm terminals
- 4-20mA scalable analogue outputs for ClO<sub>2</sub> and temperature
- Superior build quality for trouble free operation

**All ChloriDos™ systems are supplied fully wet/pressure tested to 6 Bar (ClO<sub>2</sub> reaction vessels 15 Bar), with fully configured control software, completed operational diagnostic checks, unique ID serial numbers and full documentation.**

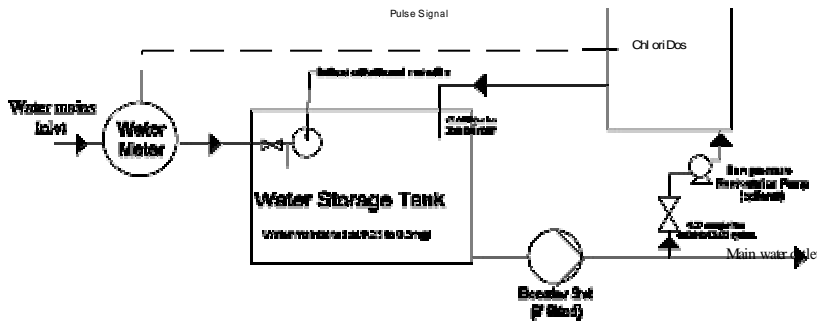
ChloriDos™ Model	Product Description	Typical ClO <sub>2</sub> production g/h
CDS-AD2E-120-300	ChloriDos Advance System (electronic pumps)	2 – 300 g/h
CDS-AD2E-240-600	ChloriDos Advance System (electronic pumps)	5 – 600 g/h
CDS-AD2D-100-250	ChloriDos Advance System (digital pumps)	2 - 250 g/h
CDS-AD2D-220-550	ChloriDos Advance System (digital pumps)	5 – 550 g/h

### Conex Technical Data

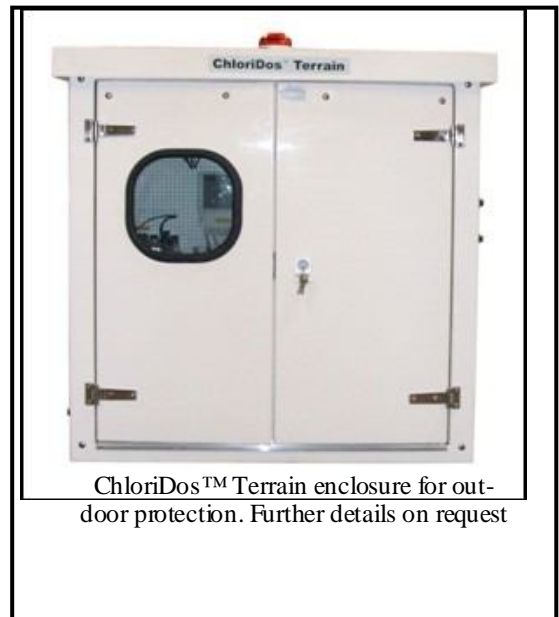
Electronics	16 bit microprocessor system
Display	High resolution plain text LCD with back light
Relay Outputs	1 alarm relay 2 controller relays (230V ,6A, max 550VA)
Signal Outputs	4 analogue (4-20mA) outputs galvanically isolated from the inputs, max load 500 Ohm
Temperature compensation	Manually or automatically from temperature sensor (fitted)
Calibration	With plausibility check
Admissible temperature	Storage: 0 to 50°C
Relative Air Humidity	Max 90% at 40°C (not condensing)
Limit Values	Adjustable to physical variable within measuring range
Hysteresis	0 to 50% of the upper limit of the measuring range
Set Point selection	0 to 100% of measuring range
Proportional Band (Xp)	0.1 to 3000%
Reset time (Tn)	1 to 3000s resolution 1s
Deriv action time (Tv)	1 to 3000s resolution 1s
On time	0.1 to 10s
Constant load	0 to 50%

### ChloriDos™ Technical Data

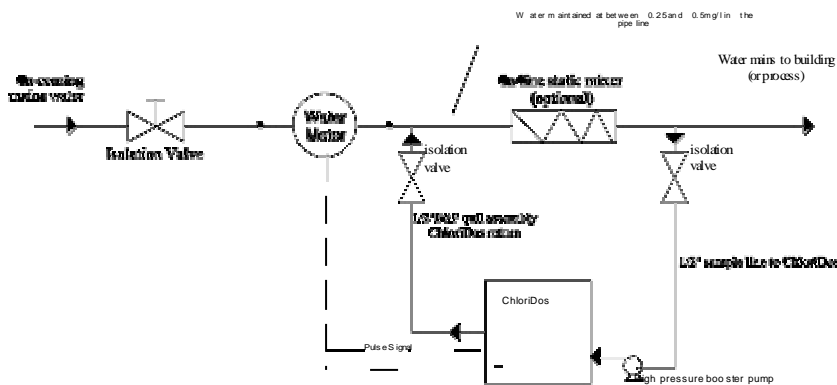
Mains supply	230V ±10% 50Hz 30mA RCBO protection recommended (6A)
Power Consumption	450 W
Aux Power	Rated 2A at 230V
General alarm output	Rated 6A at 230V (resistive)
Water meter inputs	Digital or analogue (4-20mA)
Optional circulation pump	Recommended Grundfos CHN2-20 or alternative pump max 0.37kW
Max operating pressure	6 Bar
Pipe connections	1/2" PVC unions
Dosing concentration	2 – 5%
Environmental protection level	IP65
Back board dimensions	976 x 1100mm
Terrain dimensions	1200 x 1600 x 650mm
Weight	Back board 45kg approx Terrain 195kg approx



Typical installation for water storage recirculation



ChloriDos™ Terrain enclosure for outdoor protection. Further details on request



Typical installation for rising mains recirculation

Agent: