



DISINFECTION & pH CONTROL

Reliable and innovative Disinfection and pH Control for a wide range of water and wastewater treatment applications.

OVERVIEW

Enviro Concepts Disinfection and pH Control systems are specially designed and engineered to dose and monitor Chlorine and pH in wastewater to ensure prevention of harmful effects to people's health, safety or the environment.

Using automatic Oxidation-Reduction Potential (ORP), Free Available Chlorine (FAC) and dual pH control, our Disinfection and pH Controllers will ensure the water is properly treated. Automatic dual pH control is used where both base and acid dosing are essential.

Enviro Concepts controllers use advanced control logic to provide precise control for a wide range of dosing pumps, peristaltic or pulse. They have the ability to communicate with existing PLC controllers.

APPLICATIONS

- Mine Vehicles and Equipment Wash Effluent
- Mechanical Workshops Effluent Systems
- Storm and Ground Water Treatment
- Restaurants and Hotels
- Grease Trap Treatment
- Industrial Wash Effluents
- Light and Heavy Vehicle Wash Facilities
- Quarantine and Weed/Seed Hygiene
- Energy Suppliers, Resource Industry
- Brackish and Sea Water Treatment and Desalination
- Recycled Water Treatment or Discharge

FEATURES

- Enviro Controller Secure Panel
- Flow, Conductivity, Temperature, pH, FAC and ORP Reference Probes
- Data Logging and Alarms
- Electrical Control, PLC and Communications Port
- Peristaltic or Pulse Diaphragm Pumps
- Mounting Boards, Pipework and Pumps
- Chemical Bund Boxes
- Robust, Industrial Grade



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DOSING CAPACITY

Chemical	Dosage Capacity (L/hr)
Chlorine (NaOCl)	0.2 to 3.0
Acid (HCl, H ₂ SO ₄)	0.1 to 3.0
Base (NaOH)	0.1 to 3.0

SPECIFICATION

Sensors Fitted	Temp, Flow, pH, ORP/FAC, Reference Probes
Shipping Dimension	52cm x 62cm x 23cm
Shipping Weight	18 kgs
Communications Port	RS232 device via D89 plug (internal)
Electrical Supply	220-250 VAC, 50 or 60Hz, 10 amp continuously powered "clean" mains supply, 7Amp output relays
Data Logging	Log can be set from 1 to 240 minute intervals. Downloaded either locally to a laptop or remotely via a GSM modem
Alarms - User Defined	All defined set points are able to be associated with alarm outputs as+, -, or +/- ranges
Alarms - No Volt Contact	A standard common no-volt alarm is incorporated in all controllers for DDC operation
Manifold	uPVC rated to 700 kPa at 50°C.
Peristaltic Pumps	20 mm BSP female inlet and outlet piping Available in 1 & 3 L/hr @ 350kPa.

CONTROL MODULE SPECIFICATIONS

Module Parameters	pH	ORP (mV)	Temperature (°C)	FAC (ppm)
Operating Range	0-14	0-999	0-100	0-200
Resolution	0.01	1	0.1	0.1
Accuracy	+/- 0.02	+/- 1	+/- 0.2	+/- 0.1
Repeatability	+/- 0.02	+/- 2	+/- 0.2	+/- 0.1
Alarm Range Sensor	+/- 0-3.5	+/- 0-400	N/A	+/- 0-1.0
Press. Rating	700 kPa	700 kPa	700 kPa	700 kPa
Sensor Temp. Rating	50 °C	50 °C	50 °C	50 °C



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