

Strantrol® 960 Dual Oxidation Control System

Today, disinfection and dechlorination in water can be precisely controlled by High Resolution Redox® (HRR), a result of Siemens' research. In applications worldwide, HRR® sensing is used to control the addition of chlorine, bromine, ozone, sulfur dioxide, sodium metabisulfite and sodium bisulfite. Using proven residual analyzer management in combination with patented HRR sensing, the Strantrol® Dual Oxidation Control System provides an unbeatable combination of disinfection and dechlorination control with backup technology crosschecks, and override control.

Function

- Accurately and reliably controls chlorination and dechlorination to match the ever-changing contact chamber organic and ammonia loads, regardless of flow.
- Monitors headworks and critical processes such as biological nutrient removal and wastewater aeration.
- Combines HRR® sensing with Residual management and the latest microprocessor technology features to create an advanced, fully interactive disinfection and dechlorination control system.
- Controls wastewater disinfection in applications where lag times are long and varying through SloLogic control. The result is a process variable in compliance more than manual control, flow pacing, PID, or flow pacing plus PID.
- Controller will automatically switch from primary (HRR®) to secondary (PPM) control based on operator programmed parameters.

Key Benefits

- New and innovative level of disinfection process control
- Provide a window to up-stream process
- Automatically chooses best control method
- Maintains disinfection and compliance before and after nitrification upsets
- Provides complete disinfection management for real-world control

Dimensions

960 Controller	
Enclosure	Polycarbonate UL® listed NEMA 4X
Outside height	35.56 cm (14")
Outside weight	35.56 cm (14")
Outside depth	10.95 cm (4.313")
Weight	3.63 kg (8 lbs)

PVC Plate	
Dimensions (H x W)	55.8 x 121.9 cm (22" x 48")
Weight	6.8 kg (15 lbs)



Product Sheet

Inputs

RS-485 digital network signal used to communicate with Strantrol® 880 (HRR®) and 881 (Residual) transmitters. The Strantrol transmitter's place the HRR and residual signals on the proprietary RS-485 network and control automatic sensor or sample line washing. (Strantrol® 880 & 881 units may be located up to 4,000 feet away from the Strantrol® 960 controller).

Three (3) 4-20mA flow input signals (an effluent flow input is strongly recommended for SLOlogic control).

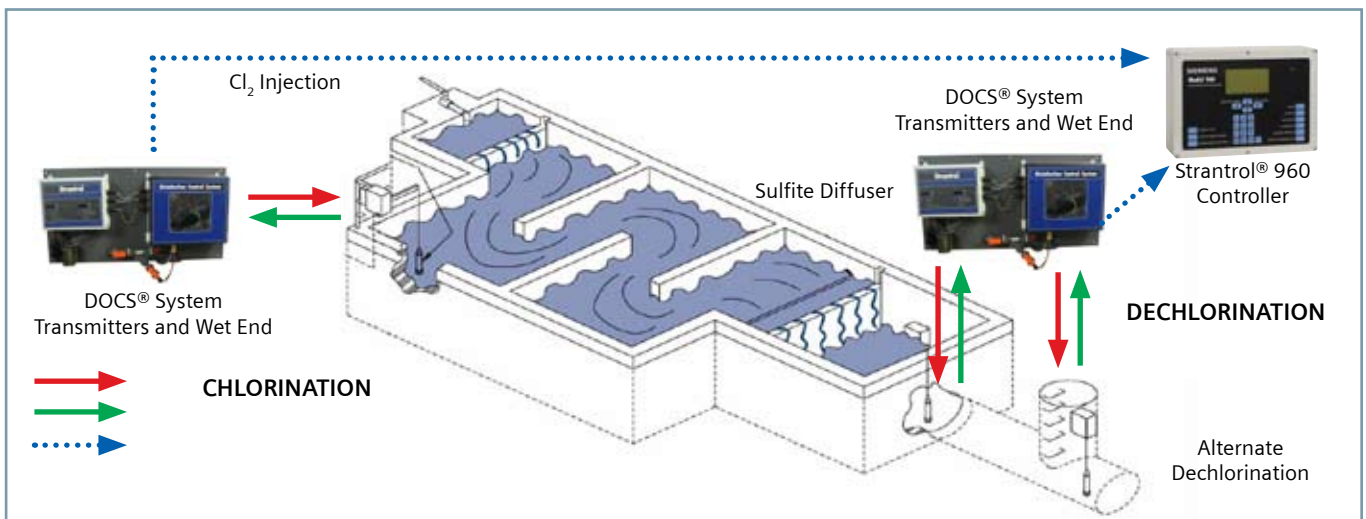
The DOCS® system offers up to three (3) HRR® channels, three (3) residual channels and three (3) optional pH channels for a total of nine (9) control and monitoring inputs.

The system is powered with 120/240 VAC, single phase 50/60Hz.

Outputs

Isolated fully rangeable 4-20 mA outputs—up to 1000 ohm load, accuracy of +/- .02mA. Six channels are available, and each is configurable as either recorder or control. There is a maximum of three (3) control channels.

Typical WWTP Installation



Options

Sensor - High Resolution Redox®, Free Chlorine, Total Chlorine and pH are available.

Submersible Sensor Assembly (HRR® or pH) - The heavy duty submersible sensor assembly is specifically designed for applications in an open chamber such as a contact tank. The submersible sensor works well where automatic sensor wash is needed.

Residual - The residual analyzer sensor assembly is supplied with an optional submersible sample pump and a line wash pump. The sensor assembly is enclosed in a weather resistant enclosure and will include all required reagents and containers.

Communication

- RS-232 direct computer (up to 38,400 baud)
- Data modem for remote computer connection (up to 19,200 baud)
- WinSys® 960 windows® based software with remote downloading and graphing capabilities.

Face Panel Display

8-line x 40-character alpha/numeric back lighted LCD display provides detailed information, including sensor readings, setpoints, output levels and alarms. Display also prompts the operator through start up, calibration, and adjustment of all features.

Face Panel Menu

Display access - allows you to view set point, control output PPD, or %, pH/HRR/PPM input values and dosage rates and flow (5 or mgd).

Security Access

Operator Access — Change Setpoint
Change % Output Auto/Manual Mode

Technical Access — Full access to all program parameters. Custom tuning for specific applications.

Representative Access — Full access to all program parameters. Custom tuning for specific applications, with additional capability to unlock and change technical and operator access codes.

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