

Strantrol® 890 Controller

Product Description

Today, oxidation and disinfection in water can be precisely controlled without operator intervention. It's done with a technology called High Resolution Redox® sensing, a product of Siemens research. In over 50,000 applications worldwide, HRR® sensors are used to control the dosing of chlorine, bromine, ozone, sulfur dioxide, and sodium bisulfite.

Industrial Applications

- Air washes
- Pasteurizes
- Cooling towers
- Hydrostatic cookers
- Heavy metal removal
- Garment drying equipment
- Paper headbox
- Machine chests
- Chlorination, dechlorination, & rechlorination

Wastewater Applications

- Monitoring headworks
- Wastewater aeration
- Biological nutrient removal
- Disinfection/dechlorination

Specifications

Dimensions (H x W x D)	254 x 178 x 112 mm (10" x 7" x 4.4")
Weight	2.3 kg (5 lbs)
Material	Polycarbonate NEMA 4X (IP65)
Certifications	ETL approved to UL® Standard 508A

Key Benefits

- Fully automated with 5 user-programmable control modes
- Provides datalogging up to 50 days
- 6 programmable outputs including (4) relay and (2) 4-20mA
- Communication ports and optional data/voice modem for remote access



Product Sheet

Inputs

- High Resolution Redox® or pH sensor connected directly or through remote preamp. Sensor input is isolated. Sensing accuracy $\pm .1\%$ per year.
- 100 ohm RTD temperature sensor (for pH temperature compensation and monitoring)
- 4-20 mA analog flow signal input needed for SloLogic control or to datalog any 4-20 mA input if not using SloLogic (Isolated)
- 120/240 VAC, single phase 50/60Hz
- External interrupt (from a timer or sample stream flow sensor) to disable chemical feed
- Range - 1000/+1000mV; 0.0-14.0 pH

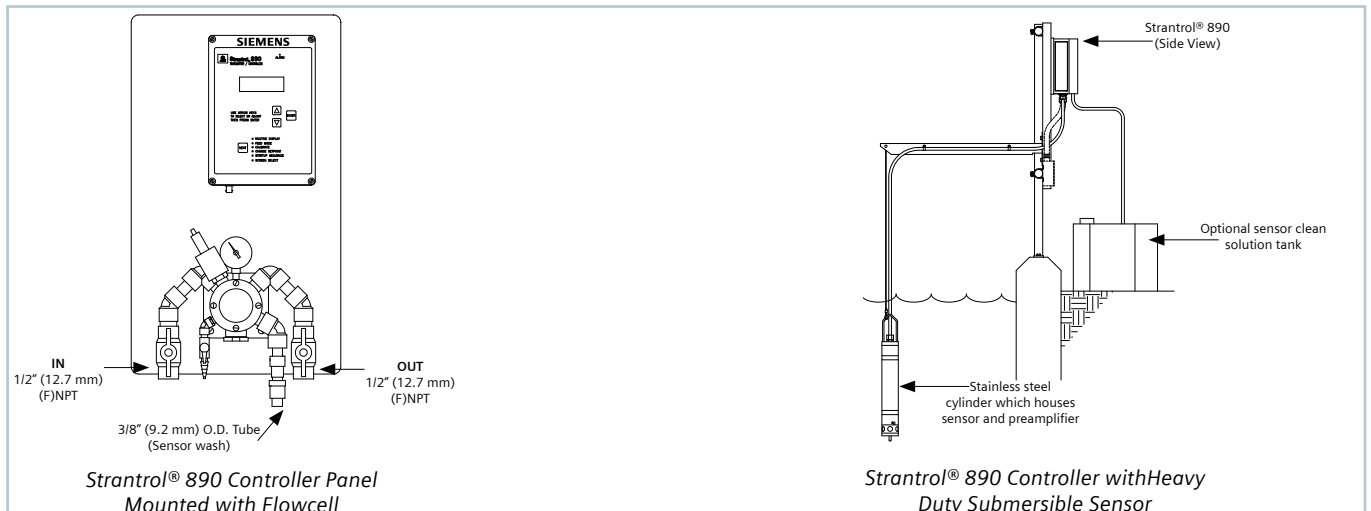
Outputs

- Isolated, fully rangeable 4-20 mA recorder output with accuracy of ± 0.2 mA. Able to drive up to 1000 ohms.
- On/off control using 5 amp solid state relay
- Time-Based Proportional control
- 4-20 mA PID control
- 4-20 mA SloLogic control (for long lag time processes)
- 0-100 strokes per minute PID or SloLogic control general alarm relay
- Second control relay—either on/off or Time Based Proportional
- Timed 120/240 VAC, 5 amp relay for automatic sensor clean with track-&-hold or other accessory function

Communication

- RS-232 with baud rate up to 19,200
- Optional data modem or data/voice modem up to 9600 baud
- Configuration and downloading software

Drawings



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Options

Sensor - High Resolution Redox® or pH

Flowcell - If application requires sensing in a pressurized line, use a standard 890 controller mounted together with a flowcell on a PVC backplate. Flowcell cover is clear permitting sensor tip inspection on line. Automatic sensor wash to the flowcell option (part no. 7149002). Optional 890 preamp. (part no. K6950013).

Submersible Sensor Assembly- The heavy duty submersible sensor assembly is specifically designed for applications where automatic sensor wash is needed and/or where the sensor is to be located in high turbulence or high flow environments such as a contact chamber, open tank or channel. Automatic sensor wash for the heavy duty submersible sensor assembly option (part no. 5890004).

Face Panel Display

4-line x 20-character alpha/numeric backlit LCD display providing full information, including sensor reading, setpoint, and alarms. Display also prompts the operator through start up, calibration, and adjustment of all features.

Face Panel Menu

Routine Display	Change Setpoint
Feed Mode	Startup Sequence
Calibrate	Screen Select

Control

4 pressure sensitive keys: up, down, next, and enter. These are used for calibration, alarm, output and all other adjustments. No internal adjustments are required.