

Water Technologies

# Strantr<sup>®</sup> 885 Conductivity / Temperature Controller

Product Data Sheet

# SIEMENS

## Description

The Strantr<sup>®</sup> 885 controller accurately and reliably maintains conductivity control in industrial process and cooling water applications. Standard features include our industry leading sensor technology, sample flowcell, control algorithms, and on-site service and support.

Each unit is equipped with three relays. The three relays can be configured for any combination of control or alarm. Two relays are rated at 5 amps (120 VAC); one at 1 amp.

Use the first relay for on/off control or patented Time-Based Proportional (TBP) control in which simple chemical feeders can mimic the accuracy of more expensive PID control.

The second relay may be configured to control a flowmeter triggered chemical feed or automatic sensor wash function.

Use the third relay as a master alarm, reporting high/low alarms and overfeed conditions, or to perform the automatic sensor wash function.

The unit's (4) 4-20 mA outputs may be used for direct data recording or transmitting data to a computer or distributed control system. Additionally, the Strantr 885 provides an external interrupt to accept a signal from a timer or sample stream flow switch. This is particularly useful in slug feed applications.



## Benefits of the Strantr<sup>®</sup> 885 Controller Include:

- Accurate and Reliable Conductivity Control
- Optional Sensor Wash and Flow Switch for Peak Performance and Safety
- User-Programmable Feed Modes to Meet Application Needs

## Inputs

- Sensor: Conductivity/Temperature Combination  
Carbon contacts K=1.0 / RTD, 100ΩPlatinum  
13' shielded cable
- Ranges: Cond: 100-20,000 μS/cm  
Temp: 32-212°F (0-100°C)  
0-9,999,999.9 Gallons
- Sensing accuracy: ± .1% per year
- Digital Inputs: Contact Closure  
(Totalizer & ChemFeed trigger)  
Sample Flow Switch (Blowdown & ChemFeed enable)
- Resolution: Conductivity: 7 μS/cm  
Temperature: 1.0°F (1.0°C)  
Digital Input: 5 Hz  
4-20 mA outputs ± 0.5%

## Outputs

Analog outputs: 4 isolated fully rangeable  
4-20mA up to 750 ohms; 2 recorder outputs,  
2 control outputs

Three programmable relays for chemical control, alarm, sensor wash, or triggered timer function. Two @ 5 amp, one @ 1 amp, 120/240 VAC, 50/60 Hz

## Ratings

- ETL approved to UL® Standard 508A  
CE approved for heavy industrial use  
Voltage: 120/250 VAC, 50/60 Hz  
Total Current: 12 amps

## Enclosure

- Rating: NEMA 4X (IP 66)  
Dimensions: (H x W x D)  
7.1 x 7.2 x 4.4 in  
(180 x 182 x 111 mm)  
Weight: 2.1 pounds (0.95 kg)  
Material: UL® approved Polycarbonate
- Weight: 2.1 pounds (0.95 kg)  
Material: UL® Listed Polycarbonate

## Sample Flowcell

Design ensures sensor remains wetted at all times. Flowcell comes complete with fittings, including two isolation valves and a sample tap. Flowcell cover is clear permitting on-line inspection of sensor tips.

- Material: Schedule 80 PVC  
Pressure: Tested to 100 psig  
(6.8 bar)  
Temperature: 120°F (48.8°C) (Max)  
Cover: Clear Polycarbonate

## User Interface

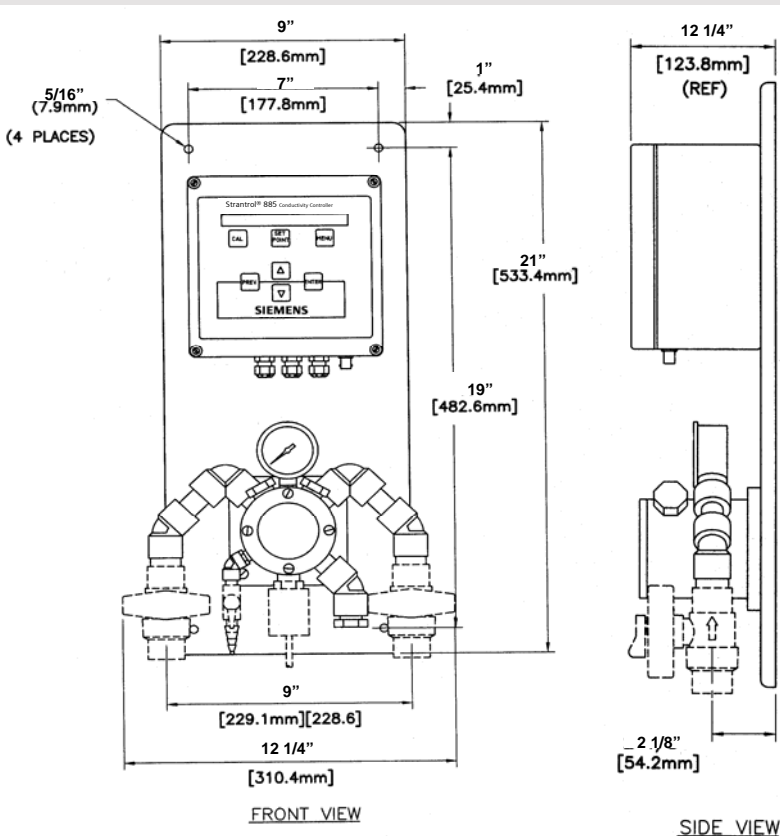
Display: 16 character backlit LCD display shows real time sensor readings, alarms, programming values and menus.

Keypad: 7 pressure sensitive keys for setting calibration, control setpoint, alarms, 4-20mA, triggered timer and sensor clean values. UP, DOWN, PREV, and ENTER keys for scrolling through menu and changing settings. CAL button for single point calibration. SETPOINT for changing the control value. MENU for more detailed configuration.

## Options

**Automatic sensor washing:** Highly recommended for high Total Dissolved Solids (TDS) applications such as recirculated cooling water. On-line sensor washing is available by requesting the optional diaphragm pump and tank package (part no. 7149002).

**Sample flow switch:** The optional sample flow switch assures that when the sample stream is interrupted for any reason, blowdown and the feed of chemicals is halted. This is a valuable safety device as well as a way to prevent overfeeding of chemical due to a trapped "dead" sample.



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