

# Sentrol Systems, Inc.

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## Automatic Dosage Control System

**Automatic Dosage Control System should include two parts:**

- (1). An intelligent computer controller, ICC
- (2). A streaming potential system

### 1. Intelligent Computer Controller, ICC

Combining artificial intelligence technique and professional water treatment experience, ICC is particularly designed for potable water and wastewater dosage automatic control.

- (1). Automatic setting working point
- (2). Sampling streaming potential absolute signal
- (3). Online tuning streaming potential signal
- (4). Automatic tracking optimal dosage
- (5). Auto and manual operation modes

### 2. Streaming Potential System (SPS)

- (1). General Function

c The streaming potential sensor should continuously measure coagulant dosed raw water

- (2). Absolute and Relative Signals

Two measured signals should be available: absolute signal and relative signal. The absolute signal indicates the actual charge polarity and intensity, where the zero point indicates the neutral (balanced) point of the measured sample. The relative signal should be adjustable based on individual application.

- (3). Four digit display, X .XXX, for streaming potential signal.
- (4). Five gain selection to find the most sensitive and reliable streaming potential signal.
- (5). SPS probe should provide a buffer for stable measurement.
- (6). Other Features
  - (A). Long Term Clog Free Operation.
  - (B). SPS output signals: 0~5 V dc and 4~20 mA dc.
  - (C). SPS sensor response time: less than two seconds.
  - (D). Sample water flow rate: 1 - 5 gpm (gallon per minute).
  - (E). LED normal operation indicator.
- (7). Mounting, Enclosure and Operating Temperature
  - (A). SPS: wall mounted with enclosures of Nema 4X, polycarbonate cabinets.
  - (B). ICC: wall mount with metal enclosure.
  - (C). Operating temperature: Mechanical: 32 ~120 degree F.  
Electronics: 0 ~ 70 degree C

- (8). Power: 120 VAC, 60 HZ/230VAC, 50HZ.

- (9). Manufacture: Sentrol Systems, Inc.

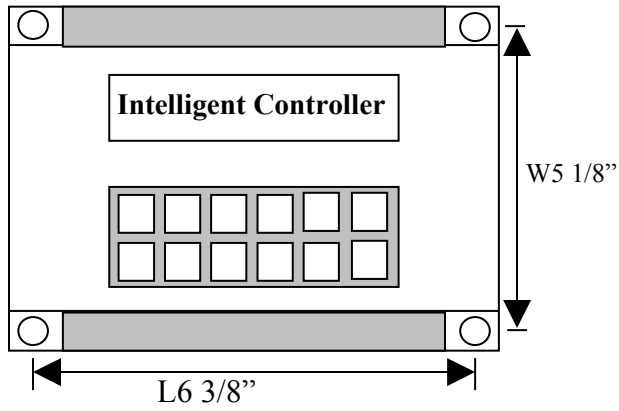
- (10). Model:

Intelligent Computer Controller: ICC

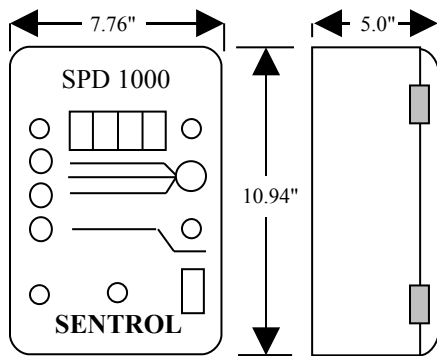
Streaming Potential Systems: SPT1000, SPD1000.

### 3. Dimensions

#### (1). Intelligent Computer Controller



#### (2). Streaming Potential Detector



#### (3). Streaming Potential Transmitter

