STREAMING CURRENT MONITOR / CONTROLLER

SYSTEMS AVAILABLE

SCM2500XRD
- Standard Benefits & Features

SCC3500XRD
- Standard Benefits & Features
+ PID Controller
+ Flow Control

BENEFITS

Optimize the Water Treatment Process

- **Immediate Response To Process Changes**
- **Maintain High Quality Finished Water**
- **Reduce Coagulant/Polymer Costs**
- **Automate Coagulant/Polymer Dosing**
- **Ensure Coagulation Reliability**
- **Improve Filter Performance**
- **Decrease Backwash Frequency**
- **Reduce Sludge Produced**

STANDARD FEATURES

- **Patented Sensor Design**
- **Microprocessor Technology**
- **Quick Replacement Probe & Piston**
- **Self-Diagnostic Sensor**
- **High-Volume Flow Minimizes Sensor Fouling**
- **Electronics Removed From Harsh Environments**
- **Corrosion-Free NEMA 4X Enclosure**
- **Spare Probe Cartridge and Piston Included**
- **High / Low Alarm Output**
- **Auxiliary Input Signals**

OPTIONAL FEATURES

- **SmartTrac PID Control**
- **DuraTrac With Automatic Flush**
- **Sensor Maintenance Module (SMM)**
  - › **Automatic Sensor Wash And Chemical Rinse**
- **DuraTrac II Sensor**
  - › **Heavy-duty Motor And Higher Flow Capacity Sensor**
- **Web Access Controller (WAC)**
  - › **Data Acquisition And Web Browser Access (ethernet/internet)**

MEASUREMENT PRINCIPLE

The instrument uses streaming current measurement to maintain proper electrokinetic charge (ionic & colloidal) in the treated water. Effectively, it responds to changes in raw water characteristics (turbidity, color, pH, etc.) and flow rates. This allows the operator, or an automated control device, to make the necessary coagulant feed adjustments in order to continuously maintain the optimum dosage.

Coagulant Control For Water Treatment

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GENERAL SPECIFICATIONS

Remote Sensor

Power	110 VAC, 1 A, 60Hz (standard) 220 VAC, 1 A, 50Hz (optional)
Sample Flow Rate	5 GPM
Sample Cell Type	External Receiver, High Flow
Probe Type	Quick Replacement Cartridge
Piston Type	Quick Replacement
Water Sample Connections	Inlet, 0.75"/19mm O.D., Barb Type
Water Sample Outlet	1"/25mm Pipe to Atmosphere
Materials Contacting Sample	Delrin, Nylon, Neoprene, Viton, PVC, Stainless Steel
Wiring Connections	1 ea. Shielded, 4 conductor, 18 AWG
Enclosure Type	NEMA 4X, Fiberglass Reinforced
Module Size	11.2"W, 9.2"H, 6.3"D 285mm W, 234mm H, 161mm D
Weight	10 lbs, 4.5kg
Operating Temperature	32 - 120 degrees F 0 - 49 degrees C
Self Diagnostics	Motor, Opto Switch,

Monitor/Controller

Power	90 - 264 VAC, 1 A, 47 - 63 Hz
Engineering Units	± 1000 Streaming Current Units
Resolution	1.0 Streaming Current Units
User Interface	Backlit Liquid Crystal Display, Menu Driven Functions, Keypad Interface
Accuracy	±0.5% of Full Scale
Response Time	1 Second
SC Output Signal	4-20mA or 0-10VDC
Alarms	Diagnostic Alarm High/Low Alarms
Signal Gain	User Adjustable 1X to 20X
Zero Offset	User Adjustable, Full Scale All Ranges
Enclosure Type	NEMA 4X, Fiberglass Reinforced Polyester
Module Size	9.2" W, 11.2" H, 6.3" D 234mm W, 285mm H, 161mm D
Weight	6 lbs, 2.7 kg

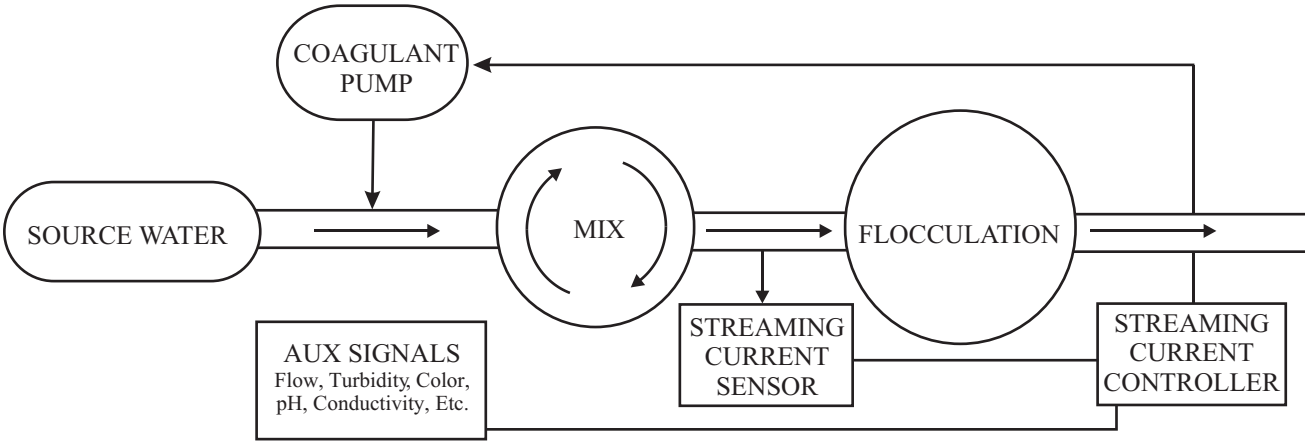
SmartTrac PID Control (For SCC3500XRD ONLY)

SmartTrac	Flow Based Control
PID Control	Proportional Gain 0-1000 Integral Gain 0-1000 Derivative Gain 0-1000 Rate 1-20
Control Output Signal	4-20mA or 0-10VDC
Control Output Limits	Adjustable High/Low Limits
Control Output Alarms	Adjustable High/Low Alarms
Digital Input	(3) Dry Contacts
Analog Input Signal	(4) 4-20mA or 0-10VDC
Operating Temperature	32-120 degrees F/0-49 degrees C

Optional Accessories

Duratrac w/ Autoflush	Sensor Flush Only
Sensor Maintenance Module	Sensor Flush and Chemical Wash
Duratrac II Sensor	Heavy Duty Motor, Higher Flow Capacity (High Solids Applications)
Web Access Controller	Data Logging / Storage, Access Via Web Browser, Intranet / Internet Full Access Control Capability, Multiple Analog I/O

TYPICAL STREAMING CURRENT MONITOR INSTALLATION



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