



STREAMING CURRENT MONITOR SCM2500 / SCC3500

STANDARD FEATURES

SCM2500 / SCC3500

- Patented sensor design
- Quick-replacement probe and piston
- Handles sample flow rate up to 5 gpm
- Automatic zero adjustment
- Expansive sensitivity (Gain) adjustment
- High/Low alarm output
- Multiple analog and digital outputs

SCC3500

- SmartTrac control (PID + flow pacing)
- Process status input (control signal hold)

OPTIONAL FEATURES

- DuraTrac II sensor (heavy duty applications, accepts 10 gpm flow)
- Automatic sensor flush
- Sensor Maintenance Option
- Web Access Controller (WAC)



BENEFITS

- Industry's most advanced microprocessor-based SCM
- SmartTrac PID ensures reliable automatic control of coagulant dosing
- Dependable automation for even non-continuous (batch) running processes
- High-volume flow and sensor cleaning options minimize sensor fouling
- Features specifically designed for the challenges of wastewater applications

APPLICATIONS

Water Treatment

- Respond quickly to raw water changes
- Reduce coagulant usage
- Improve clarifier performance

Wastewater Treatment

- Respond quickly to changes in solids
- Reduce polymer usage
- Improve dewatering performance

Reverse Osmosis Pretreatment

- Reduce RO membrane fouling
- Monitor RO feedwater for overfeed of filter aids

DESCRIPTION

The Streaming Current Monitor SCM2500/SCC3500 uses streaming current measurement to maintain proper electrokinetic charge (ionic & colloidal) in the treated water. It responds effectively 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.

Streaming Current

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GENERAL SPECIFICATIONS

Monitor/Controller

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:	4-20 mA
Alarms:	Diagnostic alarm & High/Low alarms
Signal Gain:	User adjustable, 1X to 20X
Zero Offset:	User adjustable, full scale all ranges
Digital Input:	Two dry contacts <ul style="list-style-type: none">• Low flow input• Low cleaning solution
Digital Output:	Three 24 VDC <ul style="list-style-type: none">• Sensor maintenance controls
Enclosure:	NEMA 4X, fiberglass reinforced
Power Requirements:	90 - 264 VAC, 1 A, 47 - 63 Hz
Operating Temperature:	32° - 120° F (0° - 49° C)
Dimensions:	9.2" W x 11.2" H x 6.3" D (234 mm W x 285 mm H x 161 mm D)
Weight:	6 lbs (2.7 kg)

Remote Sensor

Sample Flow Rate:	1 - 5 GPM
Sample Cell Type:	External receiver, high flow
Probe Type:	Quick replacement cartridge
Piston Type:	Quick replacement
Water Sample Connections:	Inlet, 0.75" (19 mm) OD, barb type
Water Sample Outlet:	1" (25 mm) pipe to atmosphere
Materials Contacting Sample:	Delrin, nylon, neoprene, viton, PVC, stainless steel
Wiring Connections:	1 ea. shielded, 4 conductor, 18 AWG
Self Diagnostics:	Motor, opto switch
Enclosure:	NEMA 4X, fiberglass reinforced
Power Requirements:	110 VAC, 1 A, 60 Hz 220 VAC, 1 A, 50 Hz (optional)
Operating Temperature:	34° - 120° F (1° - 49° C)
Dimensions:	9.2" W x 7.2" H x 5.3" D (234 mm W x 183 mm H x 135 mm D)
Weight:	10 lbs (4.5 kg)

SmartTrac PID Control - SCC3500 Only

SmartTrac:	PID + flow based control
PID Control:	Proportional gain 0-1000 Integral gain 0-1000 Rate 1 - 20
Control Output Signal:	4-20 mA
Control Output Limits:	Adjustable high/low limits
Control Output Alarms:	Adjustable high/low alarms
Digital Input:	Process status, dry contact
Analog Input Signal:	Flow, 4-20 mA

Optional Accessories

Automatic Sensor Flush:	Sensor flush only
Sensor Maintenance Option:	Sensor flush & 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

DuraTrac II Sensor

