

## Model SCD-T STREAMING CURRENT DETECTOR W/ TRANSMITTER

### Features

- ▶ 4~20mA Output
- ▶ NEMA Enclosure
- ▶ Serviceable Sensor
- ▶ Zero Offset Function
- ▶ Sensitivity Adjustment
- ▶ Heavy Duty Motor

## Precise Coagulant Dose Control for Water Treatment



\*Shown with optional self-cleaning

### Sensor Advantage

The Micrometrix<sup>®</sup> SCM features an improved sensor design to provide years of trouble free service. The sensor probe is "user serviceable". The user can easily replace a disposable sleeve and piston within the sensor probe to restore accuracy and sensitivity. This approach drastically reduces the cost of ownership of an SCM.



Patent Pending

### Benefits

- ▶ Chemical Savings
- ▶ Maintain Water Quality
- ▶ Early Warning Protection
- ▶ Prevent Upsets
- ▶ Optimize Treatment
- ▶ Reduce Residuals
- ▶ Easily Retrofitted



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## Engineering Specifications

The detector shall be a complete streaming current measurement instrument for continuous monitoring and control of coagulant dosage to assist in optimizing the water or wastewater treatment process.

The instrument shall be a single module with integrated sensor and shall operate on 110VAC power or 230VAC (optional) or 24VDC (optional).

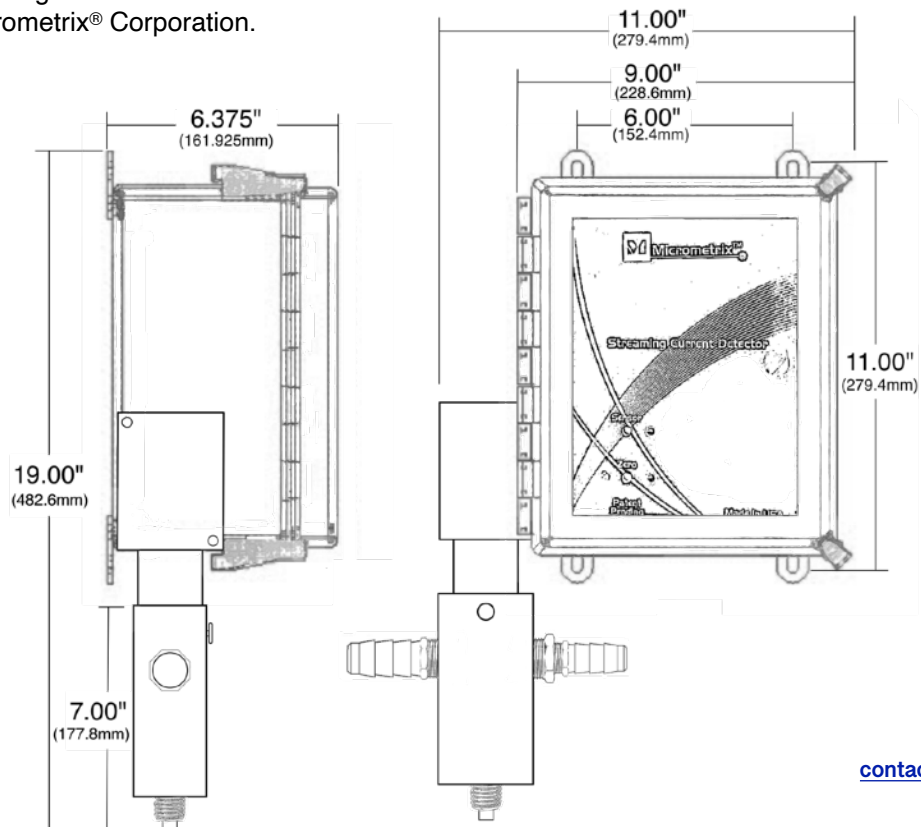
The sensor shall receive a sample of treated water at a flow rate of 1~4 liters per minute. The sensor shall have a sample inlet of 3/4" and outlet of 1" barbed style fitting. The sample probe shall be connected with a thumbscrew for easy removal without the use of tools for inspection or service. The probe housing shall use a disposable Teflon™ sleeve, which may be replaced independently of the electrodes. The upper and lower electrode shall be independently replaceable to facilitate easy servicing of the probe. The Sensor shall include two (2) spare probe piston / sleeves. Non-serviceable sensors and probe assemblies are not acceptable.

The detector shall be housed in a non-metallic NEMA 4x housing suitable for mounting outdoors. The enclosure shall have a facility to use a lock, or tamper-resistant device, to prevent unauthorized use.

The transmitter shall provide a 4~20mA output of the streaming current value rated at 600 ohms. The transmitter shall have control functions for 1) zero adjustment 2) continuous sensor sensitivity adjustment 3) internal amplifier gain adjustment 4) self diagnostic flashing LED sensor operation indicator. The adjustment controls shall be recessed and require the use of a trimmer tool to minimize tampering by unauthorized personnel.

The instrument shall be a Streaming Current Detector Model SCD-T as manufactured by Micrometrix® Corporation.

Specifications	Model SCD-T
Measurement	Streaming Current
Power	110 VAC / 230VAC (Optional) / 24 VDC (Optional)
Range	-1000 to +1000 mV
Accuracy	0.1%
Display Type	N/A
Flow Rate	1 ~ 4 Liter/Min (Standard) or 1 ~ 40 LPM (Optional)
Connection Type	3/4" Barb In 1" Barb Outlet
Response Time	1 Second
Self Diagnostic	Sensor LED
Probe Materials	Delrin, 316 SS, PTFE
Outputs	4~20mA, -10 ~ +10 V, 0~10V
Communication	Modbus (Optional)
Alarms	N/A
Zero Adjust	Full Range
Enclosure	NEMA 4x, IP 65
Mounting Holes	11.0" x 6.00"
Weight	20 lbs , 9 kg



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