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**Engineering Specification**

**Model SCM-2**

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**Streaming Current Meter with Remote Sensor**

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

The instrument shall be two modules capable of 1000' separation. Both modules shall operate on 110VAC power. (Optional 220 VAC)

**Sensor Module**

The sensor shall receive a sample of treated water at a flow rate of 1 Liter per minute. The sensor shall have a sample inlet of ½ " and outlet of ¾" barb 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<sup>tm</sup> 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 probe shall include three sets of spare pistons and sleeves.

**Electronics Meter Module**

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

The meter shall provide an LED digital display of the streaming current value calibrated in millivolts with a range of -1000mV to +1000mV. The meter shall have control functions for 1) meter zero adjustment 2) continuous sensor sensitivity adjustment 3) internal amplifier gain adjustment 4) self diagnostic flashing LED sensor operation indicator 5) independent high and low alarm contact setpoint adjustments 6) High and low alarm LED indicators. 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 Meter Model SCM-2 as manufactured by Micrometrix Corporation.