

---

***Engineering Specification***  
**Streaming Current Controller Model SCC**  
**Single-loop Controller**

---

The instrument shall be a single-loop, electronic controller for continuous control of coagulant dosage to assist in optimizing the water or wastewater treatment process. The controller may be used for any automatic control purpose with programmable Gain and Reset functions and current output.

The controller shall be comprised of one module. The controller shall operate on 110 VAC or 24 VDC power.

**Controller Module**

The controller shall be housed in a non-metallic NEMA 4x housing. The controller shall have single-loop capability and accept one (1) 4-20 mAdc signal from one (1) streaming current meter and provide one (1) 4-20 mAdc output signal to automatically adjust chemical feeders in order to maintain the streaming current set-point. The controller shall be compatible with the Micrometrix Streaming Current Meter Models SCM-1 or SCM-2 and metering pump (or other coagulant delivery system) which accepts a 4-20 mAdc measurement signal.

**Operator Interface**

The display shall be a graphic backlit LCD which includes user navigational menus and keypad entry. The user menus shall be English language prompts. The timer functions for the optional cleaning system shall be adjustable via the keypad.

The controller shall have the capability to allow a PC to access it remotely. During a Remote Access session, the remote controller shall be displayed, on-line, on the PC screen. The user shall be able to 'Press' keypad keys, check system status and run-time values, test and troubleshoot problems in remote controllers and applications. Communication options shall be Ethernet, GSM/SMS support, MODBUS (Master/Slave), RS 232 / Modem support.

The instrument shall be a. Single-loop Streaming Current Controller Model SCC as manufactured by Micrometrix Corporation.