



Micrometrixtm



COAGULANT DOSING CONTROL FOR WATER TREATMENT



Model SCM-1
Patented

THE MICROMETRIXTM STREAMING CURRENT MONITOR REPRESENTS NEW ADVANCES IN COAGULANT DOSE CONTROL. THE PATENTED SENSOR DESIGN INCLUDES NEW XLTM (EXTENDED LIFE) TECHNOLOGY AND DISPOSABLE PROBE SLEEVE. STREAMING CURRENT MONITORS HAVE DEMONSTRATED THE ABILITY TO OPTIMIZE COAGULANT DOSING AND PREVENT PLANT UPSETS.

Streaming Current Monitor

BENEFITS

CHEMICAL SAVINGS

MAINTAIN WATER QUALITY

EARLY WARNING PROTECTION

FEEDBACK CONTROL

EASILY RETROFITTED

OPTIMIZE TREATMENT

FEATURES

PATENTED DESIGN

DIGITAL DISPLAY

MODBUS (OPTIONAL)

LOW COST REPLACEABLE SENSOR ELEMENT

REPLACEABLE ELECTRODES

SCM -1 Engineering Specifications

The instrument 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.

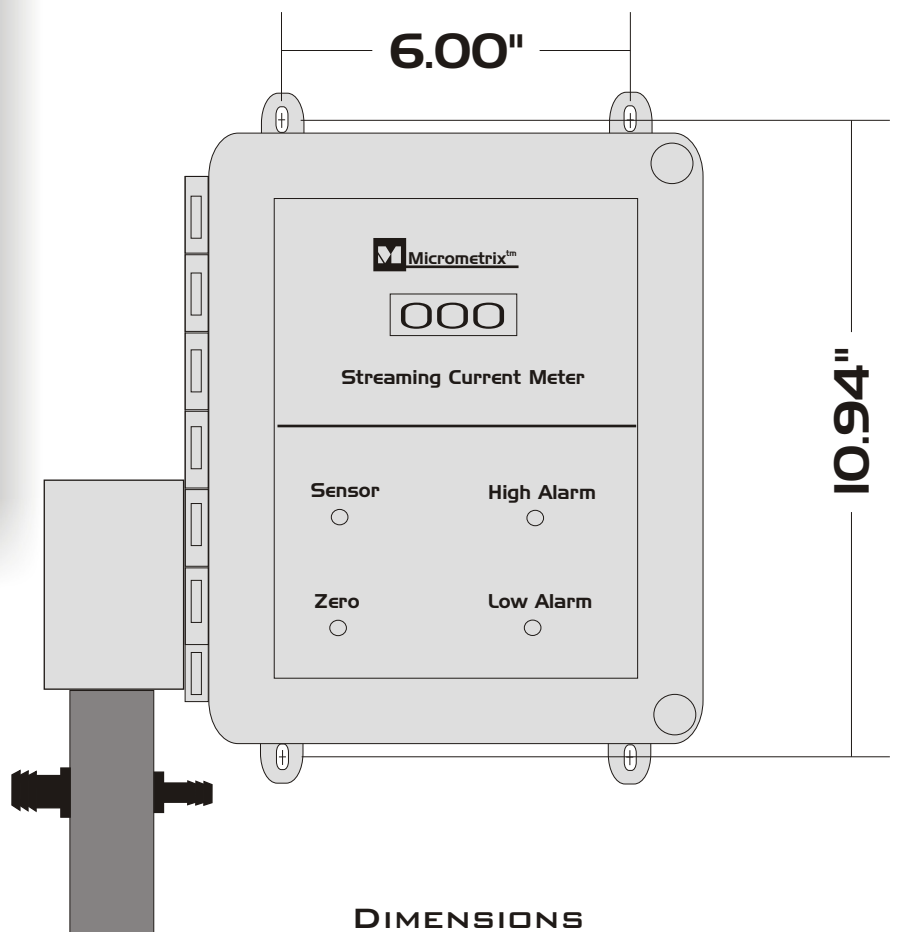
The sensor shall receive a sample of treated water at a flow rate of 1 gallon per minute. The sensor shall have a sample inlet of 1/2 " and outlet of 3/4" barb style fitting. The sample probe shall be connected with a thumbscrew for easy removal without the use of tools for inspection or service. The probe housing shall use a disposable Teflon™ 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 monitor 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 monitor 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 instrument shall be a Streaming Current Monitor Model SCM-1 as manufactured by Micrometrix Corporation, Suwanee, Georgia.

SPECIFICATIONS	MODEL SCM-1
MEASUREMENT	STREAMING CURRENT
POWER	110 VAC
RANGE	-1000 TO +1000MV
DISPLAY TYPE	LED
FLOW RATE	1 LITER/MIN
HOSE CONNECTION	3/4" BARB TYPE
RESPONSE TIME	1 SECOND
DIAGNOSTICS	SENSOR LED,
PROBE MATERIALS	DELTRIN, PTFE
OUTPUTS	4-20MA, 0 TO 10V
COMMUNICATIONS	MODBUS (OPTIONAL)
ALARMS	HIGH, LOW, RELAYS
ZERO ADJUST	AUTO
ENCLOSURE	NEMA 4X
MOUNTING HOLES	



REV 6-05