

Process Instruments

Monitor and Control Coagulation

Streaming Current Controller - Model SCC

The Micrometrix Streaming Current Controller receives a signal from the SCM-1 or SCM -2 and outputs a 4-20mA control signal to automatically adjust a chemical feeder and maintain the streaming current set-point. The controller features a keypad and backlit LCD display. The SCC is available with an optional automatic / programmable self cleaning system for the SCM probe. The cleaning system controls automatic valves and holds the control signal constant during the automatic cleaning cycle.



Chemical Feed System



Streaming Current Meter with Remote Sensor Model SCM-2

The Micrometrix online Streaming Current Meter measures ionic and particle charge in water. It is used for optimizing and monitoring coagulation (chemical dosing) in a variety of applications such as potable (drinking) water, wastewater, and industrial processes (ie. papermaking).
SCM-2 Includes:
*Remote SC sensor/probe
*LED display
*High / Low alarms
*4-20mA SC signal



Streaming Current Monitor - Model SCM-1

The Micrometrix online Streaming Current Monitor is a complete stand alone instrument for measuring charge and optimizing treatment in water and wastewater .
SCM-1 Includes:
*Integral SC sensor/probe
*LED display

Eliminate Jar Tests



Particle Charge Analyzer- Model PCA

The Micrometrix portable PCA provides a quick and simple method to establish optimum coagulant and flocculant dosage. The digital display indicates the charge of the sample and titrant is added to get a zero charge endpoint.

Results are obtained quicker and more accurately than with tradition jar tests.

Particle Monitor



The Micrometrix Particle Monitor is an online instrument which is sensitive to parts per billion levels of particulate contamination in liquid streams. The technique provides sensitivity up to hundred times greater than traditional turbidity measurement for particles larger than one micron. These instruments have demonstrated the ability to optimize clarifier and filtration processes.

Research Instruments

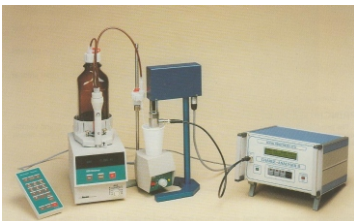
The **Micro Electrophoresis Apparatus** will determine the electrophoretic mobility of a wide range of suspended particles. It has a wide and established user base in all fields where flocculation, dispersion and surface adhesion are important parameters to control.



The **Photometric Dispersion Analyser (PDA2000)** is a simple, rugged, but very sensitive monitor for flowing suspensions and emulsions, based on an optical technique developed at the *University College London*.



The **Charge Analyser II** is a completely automatic polyelectrolytic titrator. The system is microprocessor controlled giving the operator a user friendly interface. Polyelectrolytic titration enables determination of ionic charges of polymers in solution and surface charges of colloids.



Products

Charge Measurement

- Streaming Current
- Particle Charge Analyzer
- Electrophoretic Mobility
- Zeta Potential
- Polyelectrolyte Titration

Particle / Suspension Characterization

- Emulsion Tester
- Photometric Dispersion Analyzer
- Flocculation Analyzer

Streaming

Current

&

Charge

Measurement

Particle and

Suspension

Characterization

Micrometrix provides innovative solutions to your particle and colloid measurement needs. Our scientific instruments & measurement systems are designed to accurately and precisely characterize your process.

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