



# Water Treatment Innovations

Maintaining optimum finished water quality is an ongoing concern for a water plant operator. Having accurate and reliable equipment allows the operator to react to any quality fluctuations in a time-critical and cost-effective fashion. Chemtrac offers a full line of process monitoring and control instrumentation for use in many different water treatment applications.

Since 1985, Chemtrac has led the way in establishing Streaming Current monitoring as an essential part of surface water treatment. Our commitment to designing and producing additional high quality and innovative products, while providing unmatched service, has resulted in thousands of worldwide Chemtrac installations.

Please contact us to learn more about how we can help you optimize your water treatment processes.

## WATER TREATMENT ANALYZERS

### Streaming Current Monitor

- Optimize chemical dosage
- Automate chemical feed
- Reduce chemical costs

### Laboratory Charge Analyzer

- Five-minute jar tests
- Adapt quickly to changes in raw water quality
- Confirm operation of on-line Streaming Current Monitor

### Turbidimeter

- Method 180.1 compliant
- All-in-one design
- Easy calibration

### Particle Monitor or Counter

- Optimize filtration performance and particle removal
- Size and count particles on-line
- Immediate response to process changes

### UV254 Organics Monitor

- Monitor organics removal
- Optimize UV disinfection systems
- No reagents needed

### Residual Chlorine Analyzer

- Monitor chlorine residuals
- Control chlorine feed
- No reagents needed
- Reduced pH dependency
- Free or total residual chlorine probes available

### Residual Ozone Analyzer

- Monitor ozone residuals
- Control ozone dosing
- Ozone, free chlorine, or total chlorine probes available

### pH/ORP Analyzer

- Direct measurement of pH
- pH, ORP, chlorine, or ozone probes available

Streaming Current Monitor



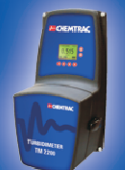
Residual Chlorine Analyzer



UV254 Organics Monitor



Residual Ozone Analyzer



Optimizing Water Treatment Processes

[www.chemtrac.com](http://www.chemtrac.com)

770-449-6233 • 800-442-8722

### STREAMING CURRENT MONITOR



The SCC3500 Streaming Current Controller is a continuous sampling, online instrument that allows water treatment plants to optimize chemical dosage and prevent water treatment upsets from occurring. With an integrated PID controller that includes flow pacing

capability, the SCC3500 will automatically maintain the optimum coagulant dosage whenever changes occur in raw water characteristics (turbidity, pH, organics, etc.) or flow rates. Chemtrac, with thousands of Streaming Current installations all over the world, is ready to put this technology to work for you.

### LABORATORY CHARGE ANALYZER



An essential tool for any water treatment professional, the ECAT2100 Charge Analyzer/Titrator enables operators to perform a virtually "hands free" test for finding the optimum coagulant dosage much faster than conventional jar testing. A simple touch of the keypad and the instrument

automatically titrates to the isoelectric (neutral) charge value, or other desired endpoint. A graphical display allows real time observation of the titration curve, and the data can be downloaded to a PC for historical record keeping.

### UV254 ORGANICS MONITOR



Chemtrac's UVM5000 provides an inexpensive solution for continuous organics monitoring. This online UV254 analyzer measures transmittance (UVT) or absorbance (UVA), using a 254 nm

light source, providing a surrogate measurement for total organic carbon (TOC). A unique patent pending opto-mechanical design ensures instrument repeatability and accuracy by automatically compensating for lamp fluctuations (drift), and/or sample cell surface fouling. An optional automatic cleaning feature virtually eliminates maintenance.

### PARTICLE COUNTER

The PC2400 Particle Counter combines simplicity of operation, advanced electronics, and powerful performance to set the standard for on-line particle counting in the



water treatment industry. With a detection capability of 2 to 900 microns, the PC2400 is ideal for monitoring and optimizing your filter's performance. Its low parts per trillion detection capability ensures that when it comes to filter breakthrough, your plant operators have the earliest warning possible. And the 2 to 100 micron sizing capability allows for accurate determination of filter removal efficiency for any particle size in this range.

### PARTICLE MONITOR



The PM2500 Particle Monitor is an excellent tool for filter monitoring and contaminant detection applications due to its sensitivity and low-maintenance design. Simple to set up and operate, the PM2500 gives you the detection capability of

Particle Counters at a lower cost. Using a unique measurement of "Dynamic Light Fluctuation", the Particle Monitor can detect low parts per trillion concentrations of particles down to 1 micron in size. Up to four remote sensors can be connected to the PM2500.

### TURBIDIMETER

The Chemtrac TM2200 Turbidimeter, which is compliant with USEPA Method 180.1, continuously monitors, records, and reports turbidity data from 0 -100 NTU. The low volume (30 mL) flow-through cuvette design provides for simple main-



tenance and calibration. Calibration is a 5 minute process that requires less than 60 mL of the turbidity standard. The single enclosure design, which includes a unique debubbling device, is also easy to install. Innovation in design, accurate and consistent performance, and easy to navigate menu functions make the TM2200 a clear choice for turbidity monitoring.

### RESIDUAL CHLORINE ANALYZER

The CRA3500 Residual Chlorine Analyzer measures free chlorine, total chlorine, and chlorine dioxide using a membraned polarographic probe. Chemtrac's probe design incorporates a long-



lasting acidic fill solution which significantly reduces pH dependency. Because the CRA3500 has no moving parts and doesn't require buffers or the addition of reagents, cost of ownership is low and maintenance is simple. The CRA3500 is available with up to four chlorine sensor inputs, reducing the cost per point.

### RESIDUAL OZONE ANALYZER

Ozone analyzers typically suffer instability due to membrane degradation over time. The OZA4800 Residual Ozone Analyzer has no such issues and provides the perfect solution for monitoring



residual ozone in water. The OZA4800 has no interference from other oxidants, such as chlorine. Coupled with its excellent zero and calibration stability it is extremely well suited to monitoring residual or dissolved ozone in clean or harsh environments. The OZA4800 is available with up to two ozone sensor inputs, reducing the cost per point.

### pH/ORP ANALYZER

At the heart of the PHO6300 pH and ORP Analyzer is a K-series, polymer filled, glass electrode. The innovative design makes the electrodes more responsive and sustain a longer life than other



electrodes. Unlike many pH analyzers, you don't need to search through dozens of pH electrodes to find one that works in your process. The K-series electrode works in all environments from pH 2 to 12 and in conductivity from 0 to 10,000µs. To help greatly simplify maintenance, the PHO6300 also offers self-cleaning and auto-calibration.