**ChemScan® UV-Series Analyzers**

**Features:**
- Can be configured for monitoring single or multiple samples and parameters
- Real-time Spectrographic chemical analysis using advanced pattern recognition techniques
- Easily interfaced to SCADA systems (4-20mA, MODBUS or Ethernet)
- Extensive internal data logging
- Self monitored diagnostics and alarms
- Internal manifold with inlets for auto zeroing auto cleaning and calibration samples
- New graphic user interface with many new features

**Potable Water Monitoring:**
- Chloramination Monitoring
- Water Blending
- Organics Detection
- Nitrification Avoidance

**Wastewater Nutrient Monitoring**
- Nitrification Analysis
- De-Nitrification Control
- Chem or Bio Phosphorous Removal
- Nutrient Deficiency Analysis
- SBR End Point Detection
- Alkalinity Monitoring

ChemScan on-line analyzers provide operators and control systems with timely process chemistry measurements. These data are used to control and optimize the process resulting in increased plant capability, reduced energy and chemical usage along with monitoring the process for compliance.

<table>
<thead>
<tr>
<th>Model</th>
<th>Application</th>
<th>Parameters</th>
<th>Max Sample Lines</th>
</tr>
</thead>
<tbody>
<tr>
<td>UV-2150</td>
<td>Nutrients or Inorganics</td>
<td>Analysis of one parameter</td>
<td>4*</td>
</tr>
<tr>
<td>UV-3150</td>
<td>Nutrients or Inorganics</td>
<td>Analysis of one parameter</td>
<td>8**</td>
</tr>
<tr>
<td>UV-4100</td>
<td>Nutrients or Inorganics</td>
<td>Analysis of multiple parameters (up to 4)</td>
<td>2</td>
</tr>
<tr>
<td>UV-6101</td>
<td>Nutrients or Inorganics</td>
<td>Analysis of multiple parameters (up to 8)</td>
<td>8**</td>
</tr>
<tr>
<td>UV-2150/S</td>
<td>Water Chloramination</td>
<td>Analysis of up to four parameters free and total ammonia, true monochloramine and total chlorine</td>
<td>2</td>
</tr>
<tr>
<td>UV-2150/N</td>
<td>Wastewater Nutrients</td>
<td>Analysis of ammonia and nitrate</td>
<td>8**</td>
</tr>
<tr>
<td>UV-2150/NoP</td>
<td>Wastewater Nutrients</td>
<td>Analysis of nitrite and ortho phosphate</td>
<td>2</td>
</tr>
<tr>
<td>UV-2150/NHoP</td>
<td>Wastewater Nutrients</td>
<td>Analysis of ammonia and ortho phosphate</td>
<td>8**</td>
</tr>
<tr>
<td>UV-2150/DC</td>
<td>Wastewater Chlor/Dechlor</td>
<td>Analysis of up to two parameters such as total chlorine residual</td>
<td>2</td>
</tr>
</tbody>
</table>

* Only 2 with filters, **Only 4 with filters

Monitor process, reduce energy and chemical costs, meet limits.
Accurate, Reliable AND Affordable
Single Parameter Analysis

Capabilities:
- Continuous, Real Time Analysis of Constant Flow Sample Stream
- Isolated Analog Output

Features:
- Long Life LED Light Source
- Low Maintenance
- Large I.D. Flow Paths
- Simple Field Adjustable Calibration
- Direct Diode Detection
- Sealed Electronics Enclosure
- Auto Cleaning and Zeroing
- No Lamp Replacement or Alignment Required
- No Filtration Required
- When TSS < 150 mg/L
- After Secondary Clarifier

The Sample Extraction Accessory provides a pressurized sample to the ChemScan mini analyzer where NTU is less than 60 and TSS is less than 150 mg/L

TSS - Total Suspended Solids
NTU - Nephelometric Turbidity Units

The Fond du Lac Wisconsin Regional Wastewater Treatment Facility has saved thousands in chemical costs.

The Fond du Lac facility, with an average flow of 9.8 MGD, treats all of the city’s wastewater along with that of neighboring communities. For the last three years, the facility has used a ChemScan mini OIP to monitor the chemical feed pump that doses Aluminum Sulfate for Phosphate removal. Jeremy Cramer, Operations Manager for the plant, reports “Alum cost savings of approximately $100,000 per year have been realized.” In the last 6 months, the unit has been tied directly to the chemical feed pump via their SCADA system. The system ramps the chemical dosing up and down as needed. “We are on pace to save approximately $50,000 more per year.” This results in a total savings estimated at $150,000 per year.

ChemScan® mini Accessories

The Sample Extraction Accessory provides a pressurized sample to the ChemScan mini analyzer where NTU is less than 60 and TSS is less than 150 mg/L

TSS - Total Suspended Solids
NTU - Nephelometric Turbidity Units

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TSS - Total Suspended Solids
NTU - Nephelometric Turbidity Units

ChemScan Cartridge Filter Wand
No cleaning air, water or chemicals required. Filter is disposable; replace monthly in less than 5 minutes.

ChemScan mini Outdoor Enclosure.
A turnkey solution for mounting the ChemScan and related items.

Submersible Pump
1.3” Max. Dia. Solids
Weight: 20 - 30 lbs
Power: 1/4 - 3/4 HP, 120 VAC 60 Hz
Power Cable: 20 feet

ChemScan Cartridge Filter Wand
No cleaning air, water or chemicals required. Filter is disposable; replace monthly in less than 5 minutes.

Deck Mounted Self Priming Pump
1/3 - 1/2 HP
Weight: 40 lbs
Mounting: Base

www.ChemScan.com
**ChemScan® Titrator/ISE Analyzer**

The ChemScan Titrator/ISE Analyzer provides consistent, reliable chemical analysis for process control and optimization in multiple stream process monitoring and/or difficult or dirty samples.

The ChemScan Titrator/ISE Analyzer is easy to operate and maintain with minimal training and provides continuous real-time online analysis enabling chemical composition measurement of liquid processes.

- Fully automatic mode for routine monitoring of process streams
- Integrated, field proven filtration system
- Modbus RS 232, Modbus RS 485, Modbus TCP/IP communications for downloading calibrations, analysis and setup data (to printer or computer)
- Digital input control for remote control operation of analysis and calibration
- Rugged design for long life under harsh operating conditions
- Internal sample fast loop and rapid reaction electrodes provide fast analyzer response for efficient process control
- Easy to operate with menu-driven selections
- Modular design provides quick access and easy maintenance throughout

**Parameters:**

- Acids
- Acidity/Alkali
- Alkalinity
- Caustic & Carbonate
- Chlorate
- Chloride
- Chlorite
- Cyanide
- Fluoride
- Hardness
- Hydrogen Peroxide
- Perchlorate
- Sulfate
- Sulfide

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**Support Services**

From installation to replacement parts, Chemscan, Inc. provides responsive service by qualified personnel.

- Commissioning
- Supplies
- Training
- Parts
- Service

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**Contact Information**

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Or visit our website:

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