

products III

- Algae Control
- Ammonia
- Calibration
- Chlorine
- Conductivity
- Cooling Tower Monitoring
- Dissolved Oxygen
- Interface Level
- Nitrate/Nitrite
- Odour FOG Control
- pH/ORP
- Self Cleaning Filters
- Sludge Blanket Level
- SRT Control
- Suspended Solids
- TOC/COD
- Turbidity

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III ChemScan UV-2150/S Chloramination Analyser

Capabilities

- Continuous, On-Line, Automatic Monitoring of one or two Sample Lines
- Three Parameter Analysis
- Analog, Serial or MODBUS Output Capabilities
- Multiple Alarms Output Capabilities
- Continual Self Diagnostics with Alarm

Features

- Multiple Wavelength UV Absorbance Detection System
- Internal Multiple Sample Line Manifold
- Automatic Zero and Clean
- Internal Data Logs
- Benign, Inexpensive Reagents
- No Ion Specific Electrodes to Clean or Replace
- Simple to Use and Maintain
- Sample handling and conditioning accessories are available for this and other ChemScan® Analyzers.

Parameters

- Free and Total Ammonia
- True Monochloramine
- Total Chlorine

Applications

- Municipal Potable Water
 - Chloramination
 - Water Blending
- Municipal Wastewater
- Industrial Wastewater
- Industrial Process Water

Benefits

A ChemScan® On-Line Analyzer can automatically provide operators with timely process chemistry measurements, without the need for frequent manual sampling or laboratory analysis. These measurements can be used to:

- Assure Process Conformance
- Control Energy and Chemical Costs
- Improve Process Performance
- Avoid Taste and Odor Complaints



*for on-line and
real-time water
and wastewater
analysis*

/// Technical Specifications

Functions And Outputs

| | |
|--------------------------------|--|
| Measurement Principle: | High Resolution, Ultraviolet Absorbance |
| Number of Wavelengths: | 256 |
| Spectral Range: | 200 - 450 nm |
| Calibration Technique: | 1 (special for chloramination monitoring) |
| Number of Parameters: | Free and Total Ammonia, Monochloramine, Total Chlorine |
| Data Communications: | 4 - 20mA, RS-232, other formats optional |
| Data Log: | 4000 Values Time/Date Stamped, 24 Calibration Spectra |
| Auto Zeroing: | YES (Std) |
| Auto Cleaning: | YES (Std) |
| Analyzer Pump: | YES (Std), Zeroing, Cleaning and Internal Sample Flow Only |
| Sample Conditioning: | YES (Opt), Direct Injection |
| Number of Sample Lines: | 1 or 2 through Internal Manifold |

Performance Specifications

| | |
|-----------------------------------|--|
| Reading Interval: | 5 to 9999 minutes |
| Response Time (1/2 scale): | 5 minutes for the entire three parameter suite |
| Range Ammonia: | 0.02 - 5.00 mg/l as N Monochloramine 0.1 - 10.0 mg/l as Cl ₂ Total Chlorine 0.01 - 10.0 mg/l as Cl ₂ |
| Accuracy: | 2% to 5% of Range |
| Precision: | Less than 0.5% of Range |
| Zero Drift: | Less than 0.5% of Range (with Auto Zero) |

Sample Parameters

| | |
|---------------------------------|--|
| Sample Pressure: | Pressurized Sample Lines must be regulated to 10 psi maximum, with max. lift 5 ft. and max. run 20 ft. to sample location or line connection |
| Sample Flow: | 0.5 to 5.0 l/min. (1.5 l flush/sampling) |
| Filtration Requirement: | NONE (For Samples Meeting Turbidity and Solids Requirements) |
| Strainer Requirement | Mesh Opening of 2.0 mm Max. |
| Sample Temperature: | 1° - 60°C (Std) |
| Sample Turbidity: | 0 - 60 NTU (Std) |
| Sample Suspended Solids: | 0 - 150 mg/l TSS |



Maintenance

- Light Source Replacement:** Every 5 years
Internal Battery Replacement: Every 2 years
Zero/Clean Solution Refill: As Required (2-4 weeks typ.)
Reagent Refill: As Required (2-4 weeks typ.)

Instrument Specifications

- Size:** Electronics 40 X 20 X 10 in
Weight: 130 lbs
Mounting: Wall (Std) or Stand (Opt)
Finish Coating: Baked Enamel on Steel (Std) or Stainless Steel (Opt)
Power: 120 VAC \pm 10%, 50-60 Hz, Amps max.
Power Connection: Hard Wired (Std) or Plug (Opt)
Power Condition: Dedicated Branch Circuit Free From: Surges/Dips \pm 10%, RF and Switching Noise
Operator Interface: 2 X 20 LCD and 4 X 4 Keypad
Sample Cell Material: Polymer Body with Quartz Windows
Sample Connection: 1/4" FNPT Fitting
Waste Connection: 1/4" FNPT Fitting (Open Drain Required)

Operating Environment

- Enclosure Ratings:** NEMA 4 (Main Enclosure)
NEMA 3R (Optrode Enclosure)
Ambient Temperature: 5° - 35°C (Std)
Relative Humidity: 0 - 100% (Non-Condensing)

Notes:

1. Technical Specifications are subject to change without prior notice.
2. All performance specifications are based on analysis of drinking water standards under factory conditions.