

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 Process Analyser

Capabilities

- Continuous, On-Line, Automatic Monitoring of up to Four Sample Lines
- Single Parameter Analysis
- Multiple Detection Ranges
- Multiple Data Output Capabilities
- Up to Four Concentration Set Point Alarms
- Continual Self Diagnostics with Alarm

Parameters

- Ammonia (dissolved)
- Phosphate (Total Inorganic, Ortho)
- See other Models for additional Parameters

Applications

- Municipal Potable Water
 - Chloramination
 - Sequesterant Feed
- Municipal Wastewater
 - Process (with filtration)
 - Effluent (without filter)
- Cooling/Boiler Water
- Industrial Wastewater
- Industrial Process Water

Features

- Multiple Wavelength UV Absorbance Detection System
- Integrated Multiple Sample Line Manifold
- Automatic Zero and Clean
- Internal Data Logs
- Benign, Inexpensive Reagents
- No Specific Ion Electrodes to Clean or Replace
- Simple to Use Operator Interface

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
 - Improve Process Performance
 - Control Energy and Chemical Costs



/// Technical Specifications

Functions And Outputs

Measurement Principle:	High Resolution, Ultraviolet Absorbance
Number of Wavelengths:	256
Spectral Range:	200 - 450 nm
Calibration Technique:	Pattern Recognition of Spectral Data
Number of Parameters:	One
Data Communications:	4 - 20mA (4 outputs max.), RS-232, other formats optional
Data Log:	1000 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:	3 - 9999 minutes
Response Time:	Analyte Dependent (3 - 5 min. typ)
Range:	Analyte/Site Dependent
Accuracy:	Analyte/Site Dependent; Typ. 2% to 5% of Range
Precision:	Analyte/Site Dependent; Less than 0.5% of Range
Zero Drift:	Analyte/Site Dependent; Minimized 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	Optional ultrafilter available for high solids or turbidity. Mesh Opening of 2.0 mm Max.
Sample Temperature:	10 - 600 °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, 10 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.

UV-2150 Analysis Parameters*

- Ammonia
- Phosphate (total Inorganic, Ortho)
- Chlorine (Free or Total)
- Iron (Total)

*Sample Conditioning Reagents Required