

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-4100 Process Analyser

Capabilities

- Continuous, On-Line, Automatic Monitoring of One or Two Sample Lines
- Up to Four Parameters
- Multiple Detection Ranges
- Multiple Data Output Capabilities
- Up to Eight Concentration Set Point Alarms
- Continual Self Diagnostics with Alarm

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

Parameters

- Ammonia (dissolved)
- Phosphate (Total Inorganic, Poly)
- Chlorine (Free, Total)
- Nitrate - Nitrite - % Transmittance

See other Models for additional Parameters

Applications

- Municipal Potable Water- Chloramination
- Municipal Wastewater
 - Process (with filtration)
 - Effluent (without filter)
- Industrial Wastewater

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



*For On-line And Real-time
Water And Wastewater
Analysis Applications*

/// 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:	4 max. (Opt)
Parameter Options:	Primary Or Secondary Absorbance
Data Communications:	4 - 20mA (8 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)
Analyser Pump:	YES (Std), Zeroing, Cleaning AND Internal Sample Flow Only
Sample Conditioning:	YES (Optional), Direct Injection
Number of Sample Lines:	1 to 2 thru Internal Manifold

Performance Specifications

Reading Interval:	3 - 9999 minutes
Response Time:	Analyte Dependent (3 - 5 min. typical)
Range:	Parameter/Site Dependent
Accuracy:	Parameter/Site Dependent, Typically 2% to 5% of Range
Precision:	Parameter/Site Dependent, Typically 2% of Range
Zero Drift:	Parameter 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 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. Optional ultrafilter available for high solids or turbidity.
Sample Temperature:	10 - 600 °C (Std)
Sample Turbidity:	0 - 60 NTU (Std)
Sample Suspended Solids:	0 - 150 mg/l (Max.)



Maintenance

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

Instrument Specifications

- Size:** 48 x 20 x 10 in.
- Weight:** 130 lbs. / 59 kg
- Mounting:** Wall (Std) or Stand (Opt)
- Finish Coating:** Baked Enamel on Steel (Std) or Stainless Steel (Opt)
- Power:** 120/240 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 > 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.