

ChemScan® UV-2150 Series
TECHNICAL SPECIFICATION

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
Parameter Options	Secondary Absorbance Only (See Table 1)
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 to 4 thru 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 l/min. (1.5 l flush/sampling)
Filtration Requirement	NONE (For samples meeting turbidity and solids requirements), Optional ultrafilter available for high solids or turbidity.
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	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 ±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
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Operator Interface	2 x 20 LCD and 4 x 4 Keypad
Sample Cell Material	Polymer Body with Quartz Windows
Sample Connection	¼" FNPT Fitting
Waste Connection	¼" 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)

Table 1 UV-2150 Analysis Parameters*
Ammonia Phosphate (Total Inorganic, Ortho) Chlorine (Free or Total) Iron (Total)
*Sample Conditioning/Reagents Required

Notes:

1. Technical Specifications are subject to change without prior notice.