

ChemScan® UV-3150
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	1 (Std), 2 max. (Opt)
Parameter Options	Primary Absorbance Only (See Table 1)
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)
Analyzer Pump	YES (Std), Zeroing and Cleaning Only
Sample Conditioning	NONE
Number of Sample Lines	1 to 8 thru Internal Manifold

PERFORMANCE SPECIFICATIONS

Reading Interval	1 - 9999 minutes
Response Time	Immediate after sample flush
Range	Parameter/Site Dependent (See Table 1)
Accuracy	Parameter/Site Dependent Typ. 2% to 5% of Range
Precision	Parameter/Site Dependent Typ. 2% of Range
Zero Drift	Parameter Dependent Minimized with Auto Zero

SAMPLE PARAMETERS

Sample Pressure	10 to 80 psi (Std), 0-10 psi (Opt) w/peristaltic pump (max. lift 5 ft., max. run 20 ft.)
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.)

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	120/240 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
Operator Interface	2 x 20 LCD and 4 x 4 Keypad
Sample Cell Material	Polymer (Std) or 316 SS (Opt)

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-3150 Primary Absorbance Parameters (Standard)	
Nitrate, Low Range	0.1 to 10.0 mg/l as NO ₃
Nitrate, High Range	10.0 to 100.0 mg/l as NO ₃
Nitrite, Low Range	0.1 to 10.0 mg/l as NO ₂
NO _x , Low Range	0.1 to 10.0 mg/l as N
NO _x , High Range	10.0 to 100.0 mg/l as N
Monochloramine	0.1 to 10.0 as Cl ₂
Iron III	0.5 to 20.0 mg/l
Molybdenum	0.5 to 20.0 mg/l
Chromium VI	0.5 to 20.0 mg/l
Organics (NOM)	0.2 to 20.0 mg/l as TOC or COD equivalent
% Transmittance	5.0 to 100.0%
UV-254 Absorbance	0.01 to 2.0 Absorbance Units

Notes:

1. Technical Specifications are subject to change without prior notice.
2. Parameter range is site dependent and is based on a standard 13mm path length and a potable water matrix.

NOT FOR PROCUREMENT, CONTACT ASP FOR LOCAL REP FOR PROCUREMENT SPEC