

ChemScan® UV-0254
TECHNICAL SPECIFICATION

FUNCTIONS AND OUTPUTS

Measurement Principle	High Resolution, Ultraviolet Absorbance
Number of Wavelengths	2
Spectral Range	254 and 404 nm
Calibration Technique	Linear correlation to % Transmittance or UV absorbance
Number of Parameters	1
Parameter Options	Absorbance Units, % Transmittance or Correlation (See Table 1)
Data Communications	4 - 20mA, RS-232 or MODBUS
Data Log	4000 Values Time/Date Stamped (optional)
Auto Zeroing	Pumped Zero Standard
Auto Cleaning	YES
Analyzer Pump	Internal Zero and Clean (Std), External Sample Pump (Opt)
Sample Conditioning	External filter for high solids and turbidity (Opt)
Number of Sample Lines	1

PERFORMANCE SPECIFICATIONS

Reading Interval	Continuous
Response Time (1/2 scale)	5 seconds
Range	0 to 100% Transmittance, 0.00 to 3.00 Absorbance Units
Accuracy	0.05 AU
Precision	0.001 AU
Zero Drift	0.1% of range

SAMPLE PARAMETERS

Sample Pressure	10 to 80 psi (Std), higher pressure: contact factory 0-10 psi (Optional) peristaltic pump (max. lift 5 ft., max. run 20 ft.)
Sample Flow	1.0 l/min
Filtration Requirement	NONE (For Samples Meeting Turbidity and Solids Requirements)
Strainer Recommendation	Mesh Opening of 2.0 mm Max.
Sample Temperature	1 ^o - 60 ^o C (Std)
Sample Turbidity	0 - 60 NTU (Std)
Sample Suspended Solids	0 - 150 mg/l TSS

MAINTENANCE

Light Source Replacement	Every 18 months
Internal Battery Replacement	Every 18 months
Zero/Clean Solution Refill	As Required (2-4 weeks typ.)

INSTRUMENT SPECIFICATIONS

Size	Electronics 11 X 9 X 6 in, Flow Cell 11 X 9 X 6 in
Weight	Electronics 2 lbs., Flow Cell 8 Lbs.
Mounting	Wall (Std)
Finish Coating	ABS
Power	85-265 VAC, 1.0 Amps max.
Power Connection	Hard Wired (Std) or Plug (Opt)
Power Condition	30 ms max dropout

Operator Interface	2 x 20 LCD and 4 x 4 Keypad
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Sample Cell Material	Polymer (Std)
Sample Connection	1/4" FNPT Fitting
Waste Connection	1/4" FNPT Fitting (Open Drain Required)

OPERATING ENVIRONMENT

Enclosure Ratings	NEMA 4X (Electronics Enclosure) NEMA 3R (Flow Cell Enclosure)
Ambient Temperature	5 ^o - 35 ^o C (Std)
Relative Humidity	0 - 100% (Non-Condensing)

Table 1 UV-0254 Primary Absorbance Parameters	
% Transmittance	0.0 to 100.0%
UV-254 Absorbance	0.01 to 5.0 Absorbance Units
Organics: TOC	Site specific correlation in mg/l
Organics: COD	Site specific correlation in mg/l
Organics: DOC	Site specific correlation in mg/l
Organics: NOM	Site specific correlation in mg/l

Notes:

1. Technical Specifications are subject to change without prior notice.
2. Organics correlation is site specific and is based on data collection and analysis by the customer.

* Performance Specifications are based on analysis of organic acid standards in non-chlorinated drinking water.