

ChemScan® UV-6101
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	8 max.
Parameter Options	Primary or Secondary Absorbance
Data Communications	4 - 20mA (16 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	YES (with Direct Injection Sample Cell), NO (with Standard Flow Cell)
Number of Sample Lines	1 to 8 thru Internal Manifold

PERFORMANCE SPECIFICATIONS

Reading Interval	3 - 9999 minutes
Response Time	Analyte Dependent (3-5 min typ.)
Range	Parameter/Site Dependent
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 (Standard Flow Cell Only), 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 (Max)
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.)
Reagent Refill	As Required (2-4 weeks typ.)

INSTRUMENT SPECIFICATIONS

Size	48 x 20 x 10 in.
Weight	140 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
Operator Interface	2 x 20 LCD and 4 x 4 Keypad
Sample Cell Material	Polymer Body with Quartz Windows

Sample Connection
Waste Connection

1/4" FNPT Fitting
1/4" FNPT Fitting (Open Drain Required)

OPERATING ENVIRONMENT

Enclosure Ratings

NEMA 4 (Main Enclosure)
NEMA 3R (Optrode Enclosure)

Ambient Temperature
Relative Humidity

5° - 35°C (Std)
0 - 100%