

ChemScan® UV-6100  
TECHNICAL SPECIFICATION

## FUNCTIONS AND OUTPUTS

Measurement Principle	High Resolution, Ultra-Violet 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 (8 outputs max.), RS-232
Data Log	2000 Values Time/Date Stamped, 24 Calibration Spectra
Auto Zeroing	YES (Std)
Auto Cleaning	YES (Std)
External Pump	YES (Std), Zeroing and Cleaning Only
Sample Conditioning	YES (Opt)
Number of Sample Lines	1 (std), 8 max. (Opt)

## PERFORMANCE SPECIFICATIONS

Reading Interval	2 - 9999 minutes
Response Time	Immediate
Range	Analyte/Site Dependent (See Table 1)
Accuracy	Analyte/Site Dependent Typ. 2% to 5% of Range
Precision	Analyte/Site Dependent Typ. 2% of Range
Zero Drift	Analyte Dependent Typ. max. $\pm 0.005$ AU per week with Auto Zero

## SAMPLE PARAMETERS

Sample Pressure	5 to 36 psi (Std), 0-5 psi (Opt) w/peristaltic pump (max. Lift 10 ft., max. run 50 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	0° - 100°C
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 5 years

## 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)
Safety Approvals	CSA, UL equivalence
Power	120 VAC $\pm 10\%$ , 50-60 Hz, 10 Amps max. (Not incl. pump)
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	316 SS (Std) or Polymer (Opt)
Sample Connection	¼" FNPT Fitting

