

## products III

- Algae Control
- Ammonia
- Calibration
- Chlorine
- Conductivity
- Cooling Tower Monitoring
- Dissolved Oxygen
- Interface Level
- Nitrate/Nitrite
- Odour FOG Control
- pH/ORP
- Self Cleaning Filters
- Sludge Blanket Level
- SRT Control
- Suspended Solids
- TOC/COD
- Turbidity

**Royce Water Technologies P/L**  
ABN 21 110 057 399

**Queensland**  
Ph 0428 571 234  
Fax (07) 3857 1236

**NSW**  
Ph 0408 079 073  
Fax (02) 9629 7472

**Victoria**  
Ph 0439 337 247  
Fax. (03) 9886 3025

[www.roycewater.com.au](http://www.roycewater.com.au)

## III ChemScan UV-6101 Process Analyser

### Capabilities

- Continuous, On-Line, Automatic Monitoring of up to Eight Sample Lines
- Multiple Parameters
- Multiple Detection Ranges
- Multiple Data Output Capabilities
- Up to Eight Concentration Set Point Alarms
- Continual Self Diagnostics with Alarm

### Features

- Multiple Wavelength UV Absorbance Detection System
- Integrated Multiple Sample Line Manifold
- Automatic Zero and Clean
- Internal Data Logs
- Benign, Inexpensive Reagents
- No Specific Ion Electrodes to Clean or Replace
- Simple to Use Operator Interface

### Parameters

- Any UV Absorbing Chemical
- Many Reagent Assisted Parameters

See other Models for additional Parameters

### Applications

- Municipal Potable Water
  - Surface Water Treatment
  - Well Blending
  - Ion Exchange Breakthrough
- Municipal Wastewater
  - Process (with filtration)
  - Effluent (without filter)
- Industrial Wastewater
- Industrial Process Water
  - Plating Bath Adjustment
  - Leak Detection

### Benefits

A ChemScan® On-Line Analyzer can automatically provide operators with timely process chemistry measurements, without the need for frequent manual sampling or laboratory analysis. These measurements can be used to:

*Assure Process Conformance*

*Control Energy and Chemical Costs*

*Improve Process Performance*



*For On-line And Real-time  
Water And Wastewater  
Analysis Applications*

## /// Technical Specifications

### Functions And Outputs

---

<b>Measurement Principle:</b>	High Resolution, Ultraviolet Absorbance
<b>Number of Wavelengths:</b>	256
<b>Spectral Range:</b>	200 - 450 nm
<b>Calibration Technique:</b>	Pattern Recognition of Spectral Data
<b>Number of Parameters:</b>	8 max. (Opt)
<b>Parameter Options:</b>	Primary Or Secondary Absorbance
<b>Data Communications:</b>	4 - 20mA (16 outputs max.), RS-232, other formats optional
<b>Data Log:</b>	1000 Values Time/Date Stamped, 24 Calibration Spectra
<b>Auto Zeroing:</b>	YES (Std)
<b>Auto Cleaning:</b>	YES (Std)
<b>Analyser Pump:</b>	YES (Std), Zeroing and Cleaning Only
<b>Sample Conditioning:</b>	YES (With Direct Injection Sample Cell), NO (With Standard Flow Cell)
<b>Number of Sample Lines:</b>	1 to 8 thru Internal Manifold

### Performance Specifications

---

<b>Reading Interval:</b>	3 - 9999 minutes
<b>Response Time:</b>	Analyte Dependent (3 - 5 min. typical)
<b>Range:</b>	Parameter/Site Dependent
<b>Accuracy:</b>	Parameter/Site Dependent, Typically 2% to 5% of Range
<b>Precision:</b>	Parameter/Site Dependent, Typically 2% of Range
<b>Zero Drift:</b>	Parameter Dependent, Minimized with Auto Zero

---

### Sample Parameters

<b>Sample Pressure:</b>	10 to 80 psi (Standard Flow Cell Only), 0-10 psi (Opt) w/ peristaltic pump (max. lift 5 ft. max. run 20 ft.)
<b>Sample Flow:</b>	0.5 to 5 l/min. (1.5 l flush/sampling)
<b>Filtration Requirement:</b>	NONE (For Samples Meeting Turbidity and Solids Requirements)
<b>Strainer Requirement</b>	Mesh Opening of 2.0 mm Max.
<b>Sample Temperature:</b>	10 - 600 °C (Std)
<b>Sample Turbidity:</b>	0 - 60 NTU (Std)
<b>Sample Suspended Solids:</b>	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:** 120/240 VAC  $\pm$ 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:** 1/4" FNPT Fitting

**Waste Connection:** 1/4" 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)

### Notes:

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