

## ChemScan UV-6201 Analyzer

### FOR ON-LINE, REAL-TIME WATER ANALYSIS

The ChemScan UV-6201 Analyzer provides operators with timely process chemistry measurements. The analyzer provides data to ensure proper control of nutrient, disinfection and other dissolved chemical treatment processes. This reduces the need for frequent manual sampling or laboratory analysis while producing the best water quality.

The ChemScan UV-6201 is equipped with a Graphic User Interface built to handle the challenges of a municipal/industrial environment. The display simplifies navigation making the analyzer user friendly. Large display numbers allow the operator to view current parameter values at a glance. And maintenance and troubleshooting videos can be accessed and viewed on the display.

#### BENEFITS

- Ensure process conformance
- Control energy and chemical costs
- Confirm plant compliance in real time
- Improve process performance
- Keep reagent and maintenance costs low

Advanced sample handling and conditioning accessories provide reliable operation in challenging process applications while minimizing maintenance. These include both at-process wand systems and centralized pump systems.



### AVAILABLE PARAMETERS

- Nitrate
- Nitrite
- Ammonia (NH<sub>3</sub> + NH<sub>4</sub>)
- Phosphate
- UV % Transmittance
- Free Ammonia
- Total Ammonia
- Monochloramine
- Total Chlorine
- TOC-uv, COD-uv
- And others

### ANALYZER FEATURES

- Simple to use and maintain
- Designed for the harsh in-plant operation environment
- Reagent-less and reagent-assisted, multiple-wavelength UV absorbance technology ensures accuracy across varying water conditions
- Clog-proof, internal, multi-sample line manifold
- Automatic zero and cleaning eliminates electrical/optical drift and flow-cell fouling
- Benign, inexpensive reagents
- No ion-specific electrodes to clean or replace
- Multiple data communication options with plant SCADA

### INTERFACE FEATURES

- Industrial hardened interface
- Local data visualization for simplified use
- Auto fault detection, auto recovery
- Graphic representation of system operation
- Multiple user levels; log of user changes
- Recovery to factory default setting
- Upgradeable via USB port

### Applications:

- WATER & WASTEWATER MONITORING IN MUNICIPAL/ INDUSTRIAL ENVIRONMENT

## FUNCTIONS AND OUTPUTS

ANALYZER OPERATION	Automated, Continuous Analysis of Water and Wastewater
MEASUREMENT PRINCIPLE	Reagent-Less and Reagent-Assisted, Multiple-Wavelength UV Absorbance Technology Using Pattern Recognition of Spectral Data
NUMBER OF PARAMETERS	Eight per Sample Line (depending on parameters)
PARAMETER OPTIONS	Nitrate, Nitrite, Ammonia (NH <sub>3</sub> + NH <sub>4</sub> ), Phosphate, UV Absorbance, Free Ammonia, Total Ammonia, Monochloramine, UV % Transmittance, Total Chlorine, TOC-uv, COD-uv and others.
DATA COMMUNICATIONS	4-20 mA (8 outputs maximum), Modbus RTU, Modbus TCP/IP, EtherNet/IP
DATA LOG	Time Date, Concentration, Diagnostic Info, Calibration Spectra
NUMBER OF SAMPLE LINES	8 Maximum
REAGENT DETECTION	YES (Standard)
AUTO MAINTENANCE	YES (Standard)

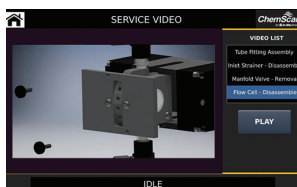
## SAMPLE PARAMETERS

SAMPLE PRESSURE	Internal pump provides sample flow with max. lift 5 ft. and max. run 20 ft. to sample location or line connection. Pressurized Sample Lines must be 10 psi maximum,
SAMPLE FLOW	0.5 to 1.0 l/min. 1 L Flush Per Sample (0.13 to 0.26 GPM - 0.26 Gallon Flush)
FILTRATION REQUIREMENT	For samples with more than 150 mg/l TSS
STRAINER REQUIREMENT	#20 Mesh - Opening of 0.69 mm (0.027 inches) Provided
SAMPLE TEMPERATURE	50-140°F (10° - 60°C)
SAMPLE TURBIDITY	0-60 NTU

## OPERATING ENVIRONMENT

ENCLOSURE RATINGS	Upper Enclosure: NEMA 4 (NEMA 4X Optional, 316 SS) Lower Enclosure NEMA 3R (Optional, 316 SS) (shielded spill drain)
AMBIENT TEMPERATURE	41 - 113°F (5° - 45°C)
RELATIVE HUMIDITY	0 - 100% (Non-Condensing) For Installation in an Indoor or Sheltered Location

Step by step maintenance and troubleshooting videos can be viewed on the display, simplifying the service process with graphic representation of the system's operation.



## PERFORMANCE SPECIFICATIONS<sup>2</sup>

READING INTERVAL	1-9999 Minutes (parameter and sample-line dependent)	
RESPONSE TIME	1-10 Minutes (parameter and sample-line dependent)	
ACCURACY	Typ. 2% to 5% of Range, Parameter/Site Specific	
PRECISION	Less than 0.5% of Range	
ZERO DRIFT	Less than 0.5% of Range	
STANDARD RANGE (Higher Ranges Available)	Nitrite 0.1 - 5.0 mg/l as N Nitrate 0.1 - 20.0 mg/l as N Ammonia 0.2 - 20.0 mg/l as N O-Phosphate 0.05 - 5.0 mg/l as P Transmittance 0 - 100% T, Absorbance 0 - 3.000 AU	Free Ammonia 0.02 - 1.00 mg/l as N Total Ammonia 0.02 - 2.00 mg/l as N Monochloramine 0.05 - 5.0 mg/l as Cl <sub>2</sub> Total Chlorine 0.05 - 5.0 mg/l as Cl <sub>2</sub> TOC-uv, COD-uv (Site specific)

## INSTRUMENT SPECIFICATIONS

SIZE	48 x 20 x 10 inches (122 x 51 x 26 cm)
WEIGHT	130 lbs (59 kg)
FINISH COATING MATERIAL	Polyurethane Enamel over Polyester Urethane on Steel (Standard) or Type 316 Stainless Steel (Optional)
POWER	120 VAC ±10%, 50-60 Hz, 4 Amps maximum
POWER CONNECTION	Hard Wired (Standard) or Plug (Optional)
POWER CONDITION	Dedicated Branch Circuit Free From: Surges/Dips > 10%, RF and Switching Noise
OPERATOR INTERFACE	7" TFT, LCD, Touch HMI Panel
SAMPLE CONNECTION	1/4" FNPT Fitting
WASTE CONNECTION	1/4" FNPT Fitting (Open Drain Required)
MOUNTING	Wall (Standard) or Stand (Optional)

## MAINTENANCE

LIGHT SOURCE REPLACEMENT	Every 4 years
ZERO & CLEANING SOLUTIONS REFILL	As Required (4 weeks typical)
REAGENTS REFILL	As Required (4 weeks typical)

### Notes:

1. Technical Specifications are subject to change without prior notice.
2. All performance specifications are based on analysis of drinking water standards under factory conditions.