



ChemScan[®] UV-2250/S Analyzers Proposal

ChemScan, Inc. (the Company) agrees to sell and deliver to the purchaser and the purchaser agrees to buy and accept from the Company the ChemScan products and services as described in this proposal.

Log No.:
Q-71862

Proposal Date:
10/13/2021

Project Name:
New Port Richey Chloramination

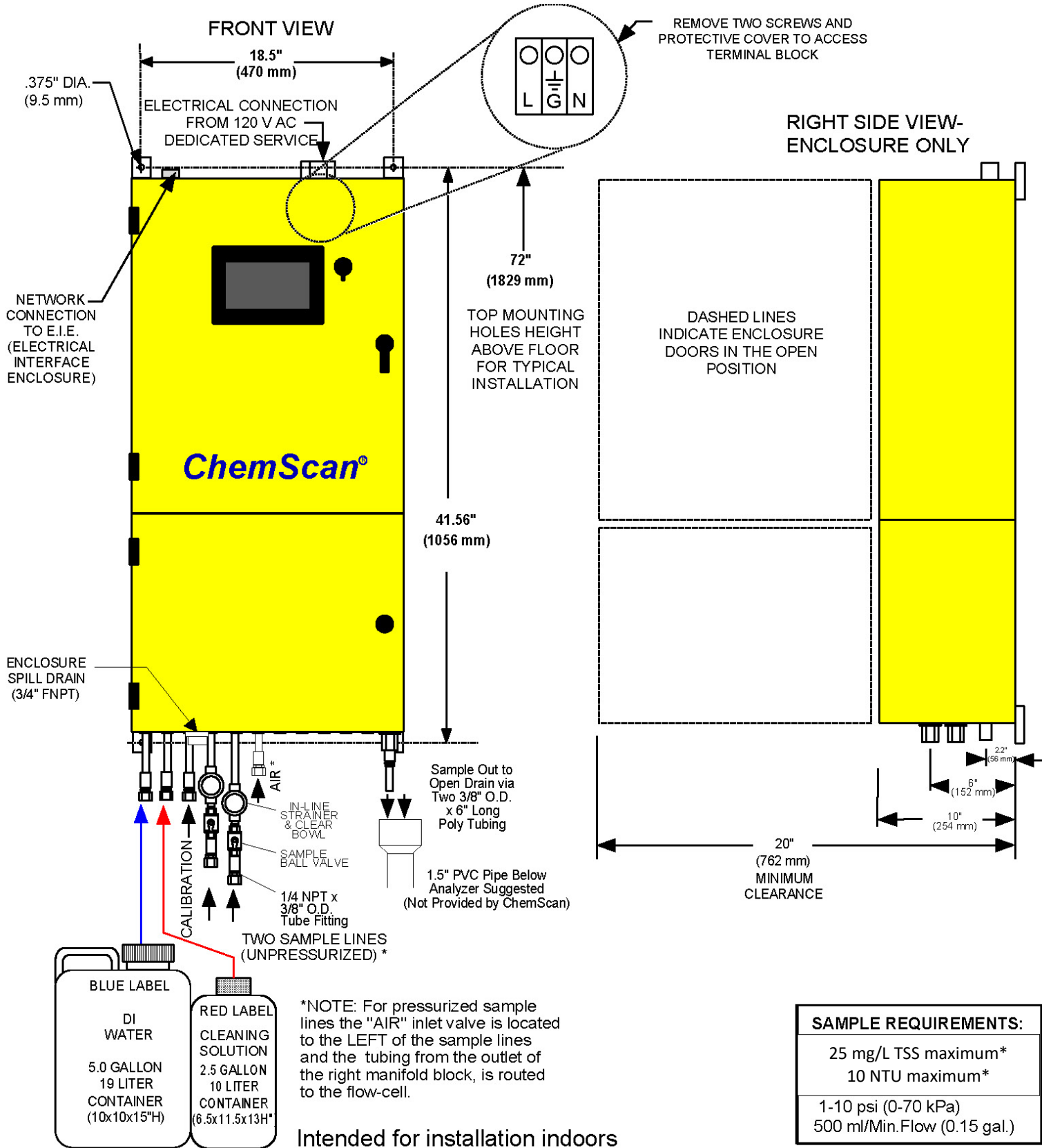
Bid Date:
NA

Submit to: Greg Wikholm
City of New Port Richey
5919 MAIN STREET
New Port Richey, Florida
346522685

Factory: ChemScan, Inc. 2325
Parklawn Drive
Waukesha, WI 53186 Fax
(262) 717-9530

Contact: Alex Krapas
(262)505-3002
akrapas@chemscan.com





Intended for installation indoors

WEIGHT: 125 lbs (56.7 kg)
 DIMENSIONS: 20 x 40 x 10" DEEP, (51 x 102 x 26 cm)
 POWER: 120 V AC 4 AMP
 ENCLOSURES: Upper NEMA 4 Lower: NEMA 3R (spill drain)
 Polyurethane Coated Steel Enclosures Standard

SAMPLE REQUIREMENTS:
25 mg/L TSS maximum*
10 NTU maximum*
1-10 psi (0-70 kPa)
500 ml/Min.Flow (0.15 gal.)

ChemScan®
ChemScan UV-2250/S Analyzer Installation Diagram
System Plumbing Details with Two Sample Lines,
Auto Zero and Cleaning

ChemScan, Inc.	PHONE: 262-717-9500 FAX: 262-717-9530
REV. DATE: 2/6/20	
ChemScan UV-2250/S Process Analyzer Installation Diagram	
FILE # 42NDPRB	

Scope of Supply
One (1) ChemScan[®] UV-2250/S Analyzers

Chemscan is proud to provide this proposal for its standard offering of products, accessories, consumables, submittals, documentation, training and service. Any additional requests or requirements, whether verbal or included in an external document, that are beyond ChemScan's standard offering, as expressly described below, are not included in this proposal's scope of supply or pricing.

Item 1: One (1) Wall Mounted ChemScan Model UV-2250/S Process Analyzer, including NEMA4 electronics module enclosure, main power connection, control circuit board, network communications board and associated software for instrument control, internal memory with lithium battery backup, light source module, spectrograph module with 256 element array detector and cabinet mounted touchscreen graphical HMI.

Flow cell module consisting of injection type flow cell, reagent injectors, internal manifold including auto zero and clean functions, calibration sample port, with the capability of analyzing up to one (2) sample streams, peristaltic analyzer pump for zero and clean solutions, RS-232 serial port and NEMA-3R enclosure.

Item 2: One (1) Wall Mounted ChemScan Electrical Interface Enclosure including NEMA-4X enclosure, system communication module and 4-20 mA analog outputs. Alternative outputs, such as MODBUS RTU, TCP/IP or AB Ethernet IP are available, and a quote can be provided upon request.

Item 3: ChemScan single instrument software license for chemometric algorithm suitable for on-line analysis of the following parameters:

Free Ammonia	0.02 - 1.00 mg/l as N
Total Ammonia	0.02 - 2.00 mg/l as N
Monochloramine	0.10 - 5.0 mg/l as Cl ₂
Total Chlorine	0.10 - 5.0 mg/l as Cl ₂

Item 4: Start-up supply of reagents with recipes for making them up in the future to be provided during training and commissioning.

Item 5: Field Service - as follows:
 Initial on-site installation assist and calibration - 2 trips, 3-days max. each trip.
 Operation and Maintenance Training – 1/2 day, included
 Includes travel expenses from Waukesha, Wisconsin.

Item 6: Freight to jobsite

Price: UV-2250/S Chloramination Analyzer Items 1-6: \$37,310.00

Notes:

1. Mount indoors or in sheltered location. No direct sunlight. Operating temperature range shall be 34°-140°F for sample liquid and 41°- 113°F ambient.
2. Sample pressure specification at the analyzer is 2.0 to 10.0 psi with flow of 0.5 to 5 L/min. Pressure and flow regulator by others.
3. Sample Filtration is required for any sample with TSS greater than 25 mg/l or turbidity higher than 10 NTU.
4. DI water for zeroing and DI water/Muriatic Acid for cleaning shall be supplied by others.
5. NO mandatory maintenance or reagent contracts are required.
6. UL or CSA third party listing of the ChemScan systems is not provided in the price stated in this proposal. If required, all costs associated with factory or field labeling and inspection of the ChemScan systems are to be borne by Others. An adder price for all systems to be inspected at the factory in Waukesha, WI shall be provided upon request.
7. Owner/Contractor shall provide a minimum of two weeks' notice before start-up for chemical reagents shipment to plant site. The Company will provide a start-up checklist in advance to be completed by Owner/Contractor after installation and returned with several photos. ChemScan Service Associate will work with Owner/Contractor to schedule a start-up date to coincide with process stabilization.

Exclusions: The following items are not furnished under this proposal unless specifically listed in the product description: Installation labor; mounting hardware or anchor bolts; analyzer shelters or sunscreens; electrical connections and/or power wiring; UPS, Lightning or Surge protection; connection to or interface with external data logging, recording, alarm, control or SCADA devices; sample lines, including any necessary valves, manifolds, flow or pressure regulators, heat trace or insulation; control algorithms for process equipment or systems; actuators or chemical feed systems for external processes or systems; or spare parts for ChemScan® instruments.

Price Policy: The price quoted is based on a target delivery of 60 days or less from receipt of an approved submittal package.

This date assumes that an acceptance of this offer or a valid purchase order will be furnished to the Company within 60 days of the date of this proposal, that the Company will furnish a submittal package for approval within 30 days following receipt of a valid order and that an approved submittal package and authorization to fabricate will be returned to the Company within 30 days after submission for approval.

If the order date or submittal approval date is later than the time period shown above, the Company reserves the right to adjust the price and/or delivery date for the items to be furnished under this proposal and any resulting agreement.

Submittals: The Company shall supply electronic copies of standard ChemScan Submittal and O&M Manuals. Any requirements outside standards may be satisfied for additional compensation. Example of Standard ChemScan Submittal and O&M Manual for similar Analyzer is available upon request. Job specific Operation and Maintenance manuals will be furnished during on-site operator training. The submittal package will include the following items:

1. Outline drawing of ChemScan® Process Analyzer system and accessories manufactured by the Company.
2. Top-level schematics and wiring diagrams showing ChemScan power and data connections.
3. Installation instructions showing mounting and sample line connection details.
4. Equipment specifications for ChemScan instruments and accessories.
5. Manufacturer's literature for ancillary items not manufactured by the Company but furnished with the ChemScan system.

Taxes: Any applicable Duties or Sales, Use, Excise or similar taxes will be added to the price and invoiced separately (unless acceptable exemption certificate is furnished).

Terms: 20% upon delivery of submittal package for approval.
70% upon shipment of ChemScan instruments and accessories
10% upon completion of Start-Up services

NOTE: WARRANTIES SHALL APPLY ONLY IF PAYMENT IS MADE IN FULL AND IN CONFORMANCE TO THE ABOVE SCHEDULE.

The above pricing is expressly contingent upon the items in this proposal and are subject to the Standard Terms and Conditions of Sale detailed herein.

All invoices are net 30 days.

Unless other terms are specified, all payments shall be in United States dollars, and pro rata payments shall become due as deliveries are made. If delivery is delayed by Purchaser, date of readiness for delivery shall be deemed to be date of delivery for payment purposes. If manufacture is delayed by Purchaser, a payment shall be made based on purchase price and percentage of completion, balance payable in accordance with the terms as stated.

Shipping: 60 days or less after authorization to proceed with fabrication - subject to price policy clause.

Delivery: FOB factory, freight allowed to jobsite.

Validity: This proposal is valid for a period of 60 days from the date of the proposal shown above.

STANDARD TERMS AND CONDITIONS OF SALE

1. Terms

Delivery to the transporting carrier shall constitute delivery to the Purchaser and title shall pass at that point, except that a security interest in the product(s) shall remain in ChemScan, Inc. (Company) regardless of mode of attachment to realty or other property, until the full price has been paid in cash. The Purchaser agrees to do all acts necessary to perfect and maintain said security interest, and to protect Company's interest by adequately insuring the product(s) against loss or damage from any external cause with Company named as insured or co-insured.

Partial shipments may be made and proportionate payments shall become due and payable on partial shipments. Company shall select method of transportation and route. When delivery terms are FOB destination or freight allowed to destination, "destination" means common carrier terminal point (within the continental United States, excluding Alaska and Hawaii) nearest the final destination.

The target shipment date is subject to change due to delay on the part of the Purchaser in supplying the Company with necessary data or any changes therein at the Purchaser's instance, and to delays caused by fires, floods, strikes, accidents, civil or military authority, delays by suppliers of material and any other cause beyond the Company's reasonable control. Delay in delivery for any cause shall in no event subject the Company to any special or consequential damages.

If at any time in Company's judgment Purchaser may be or may become unable or unwilling to meet the payment terms specified, Company may require satisfactory assurances of full or partial payment as a condition to commencing or continuing manufacture or payment in advance of shipment, or may, if shipment has been made, recover the product(s) from the carrier.

If payments are not made in conformance with the terms specified herein, the contract price shall, without prejudice to the Company's right to immediate payment, be increased by 1% per month on the unpaid balance, but not to exceed the maximum amount permitted by law.

Cancelation Prior to Shipment - In the event that Purchaser cancels the order prior to shipment of the instrument and accessories, all amounts previous paid by Purchaser shall be retained by ChemScan and Purchaser shall be responsible for payment of a cancelation fee equal to the amounts incurred by Company for time and materials up to the date of cancelation at Company's then-current rates. Company will invoice Purchaser within 10 days of cancelation and Purchaser shall pay the invoice within 20 days. Notwithstanding the foregoing, the cancelation fee shall not exceed the total price set forth herein.

Cancelation After Shipment - In the event that Purchaser cancels the order following the shipment, Purchaser shall pay to Company the full amount of the price set forth in this agreement.

The cancelation fees set forth above shall be deemed to be liquidated damages and not a penalty, the parties acknowledging that actual monetary damages that may be incurred by Company in the event of cancelation by Purchaser are very difficult to ascertain.

2. Warranty

The Company warrants the product(s) on date of delivery to Purchaser to be of the kind and quality described herein, merchantable, and free of defects in workmanship and material.

There are no warranties, express or implied, except the foregoing. The provisions in specifications hereto attached, if any, are descriptive. There is no warranty as to the performance of the product(s) except as may be set forth in a separate performance warranty attached to this proposal.

The foregoing warranties are expressly conditioned upon the ambient operating temperature at no time exceeding 120°F. If temperature at any time shall exceed 120°F, all warranties shall be null and void and the Company shall have no responsibility or liability with respect to the product(s).

The Company shall not be responsible for the deterioration of any kind of the product(s) to corrosion, erosion, or any other cause, regardless of when such deterioration occurs after leaving the Company's premises.

Any item of the product(s) which has not been manufactured by the Company shall be covered only by the express warranty of the manufacturer thereof.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE EXPRESSLY STATED IN THIS CONTRACT. THE EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY OR CLAIM IN TORT OR CONTRACT IS AS STATED HEREINAFTER.

IF PAYMENTS ARE NOT MADE ON TIME AND IN FULL, ALL WARRANTIES SHALL BE NULL AND VOID AND THE COMPANY SHALL HAVE NO RESPONSIBILITY OR LIABILITY WITH RESPECT TO THE PRODUCTS.

IF THE PRODUCT(S) ARE NOT INSTALLED, OPERATED AND MAINTAINED IN CONFORMANCE WITH THE COMPANY'S INSTRUCTIONS, ALL WARRANTIES SHALL BE NULL AND VOID AND THE COMPANY SHALL HAVE NO RESPONSIBILITY OR LIABILITY WITH RESPECT TO THE PRODUCTS.

If, within one year from the date of initial operation, but not more than 18 months from date of shipment by Company of any item of the product(s), Purchaser discovers that such item was not as warranted and that such defect interferes with the mechanical operation of the product(s), and promptly notifies the Company in writing thereof, the Company shall remedy such nonconformance (but only if the Company, in its sole judgment, determines that such item or product(s) was not as warranted and that such defect interferes with the mechanical operation of the item or product(s), and in the event of a dispute, the Company's decision shall be final) by, at Company's option, adjustment of the purchase price or furnishing or repairing, depending upon which alternative is most in accord with scientific or engineering principles, without charge, FOB origin, a similar part to replace any part of the product(s). Purchaser shall assume all responsibility and expense for removal, reinstallation, and freight in connection with the foregoing remedies. The Company shall have the option of requiring the return of the product(s), transportation prepaid by purchaser, to establish the claim, or to make repairs or replace parts, or both. No allowance will be made for repairs or alterations unless made with the Company's consent or approval. Company will not be responsible for work done, apparatus furnished or repairs made by others, without prior authorization by the Company.

Replacement parts furnished by the Company shall be warranted as new parts are herein warranted. The same conditions and limitations with respect to the repair or replacement of such replacement item or product(s), as apply to new product(s), shall apply to such replacement parts. Company shall have the right of disposal of parts replaced by it. Unused spare or replacement parts may be returned FOB factory for credit less a 25% handling and restocking charge.

Company's liability to Purchaser relating to the product(s), whether in contract or in tort, arising out of warranties, representations, instructions, installations, or defects from any cause, shall be limited exclusively to adjusting the purchase price or correcting the product(s) and under the conditions as aforesaid. The Company shall not be liable for any special or consequential damages resulting in any manner from the furnishing or use of the product(s), whether in connection with any erosive or corrosive gases or liquid or otherwise.

3. Patents

Company shall pay costs and damages finally awarded in any suit against Purchaser or its vendees to the extent based upon a finding that the design or construction of the product(s) as furnished infringes a United States patent (except infringement occurring as a result or incorporating a design or modification at Purchaser's request) provided that Purchaser promptly notifies Company of any charge of such infringement, and Company is given the right at its expense to settle such charge and to defend or control the defense of any suit based upon such charge. This paragraph sets forth Company's exclusive liability with respects to patents.

4. Confidential Information and Improvements

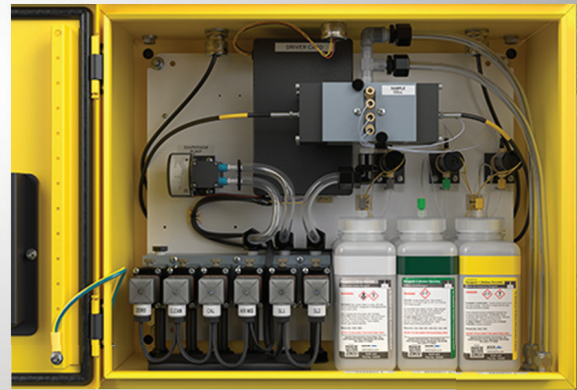
Purchaser will keep confidential and will not use or reproduce any information received from Company in connection with the Proposal or the use, operation nor maintenance of the product(s) except with the written consent of Company. Purchaser will not copy or otherwise reproduce any written or printed material or drawings furnished to Purchaser by Company in connection with the product(s). Purchaser will return all such material to Company if the Proposal is not accepted. Purchaser will not copy the product(s) or make any design drawings of the product(s) and will not permit others to copy or make design drawings of the product(s). Company shall have a royalty-free license to make, use and sell, any changes or improvements in the product(s) invented or suggested by Purchaser or its employees.

5. General

Company shall not in any event be liable for indirect, special, incidental, or consequential damages, or penalties, nor does it assume any liability of Purchaser or others for injury to persons or property.

The laws of the State of Wisconsin shall govern the validity, interpretation and enforcement of this contract.

This document and the other document specifically referred to as being a part thereof, constitute the entire contract on the subject matter, and it shall not be modified except in writing signed by both parties. Assignment may be made only with written consent to the other party.



ChemScan UV-2250/S Chloramination Analyzer

FOR ON-LINE, REAL-TIME WATER ANALYSIS

The ChemScan UV-2250/S Chloramination Analyzer provides operators with timely process chemistry measurements to optimize the difficult-to-control chloramination process. The analyzer provides data to ensure proper disinfectant while minimizing disinfection by-products (DBPs) and nitrification potential. This reduces the need for frequent manual sampling or laboratory analysis while producing the best water quality.

The ChemScan UV-2250/S 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 proper disinfectant concentrations
- Minimize disinfection by-products
- Reduces distribution nitrification
- Avoid taste and odor complaints
- Control energy and chemical costs
- Improve process performance

AVAILABLE PARAMETERS

- Free Ammonia
- Total Ammonia
- Monochloramine
- Total Chlorine

ANALYZER FEATURES

- Simple to use and maintain
- Designed for the harsh in-plant operating environment
- 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
- Recover to factory default setting
- Upgradeable via USB port

www.ChemScan.com

Email: info@chemscan.com
800-665-7133 (toll-free in U.S.A. and Canada)
1-262-717-9500 (U.S.A. and international)



Applications:

- WATER MONITORING IN MUNICIPAL ENVIRONMENT
- WATER MONITORING IN INDUSTRIAL ENVIRONMENT

FUNCTIONS AND OUTPUTS

ANALYZER OPERATION	Automated, Continuous Analysis of Drinking Water
MEASUREMENT PRINCIPLE	Reagent-Assisted, Multiple-Wavelength UV Absorbance Technology Using Pattern Recognition of Spectral Data
NUMBER OF PARAMETERS	Four per Sample Line
PARAMETER OPTIONS	Free Ammonia, Total Ammonia, Monochloramine, Total Chlorine, UV Absorbance or Transmittance
DATA COMMUNICATIONS	4-20 mA (4 outputs per sample line max.), Modbus RTU, Modbus TCP/IP, ABB Ethernet, others optional
DATA LOG	Time Date, Concentration, Diagnostic Info, Calibration Spectra
NUMBER OF SAMPLE LINES	1 or 2 through Internal Manifold, Two Standard, see UV-6101 if more required
REAGENT DETECTION	YES (Standard)
AUTO MAINTENANCE	YES (Standard)

SAMPLE PARAMETERS

SAMPLE PRESSURE	Pressurized Sample Lines Regulated to Less Than 2-50 psi (14 - 345 Kpa) (Adjustable Pressure Regulators Provided) (Unpressurized Optional)
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	None
STRAINER REQUIREMENT	#20 Mesh - Opening of 0.69 mm (0.027 inches) Provided
SAMPLE TEMPERATURE	50-140°F (10° - 60°C)
SAMPLE TURBIDITY	0-10 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.



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.

PERFORMANCE SPECIFICATIONS²

READING INTERVAL	10-9999 Minutes
RESPONSE TIME	10 Minutes for the Entire Four-Parameter Suite
ACCURACY	+/- 0.02 or 2% (whichever is greater), Parameter Specific
PRECISION	Less than 0.5% of Range
ZERO DRIFT	Less than 0.5% of Range (with Auto Zero)
RANGE	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 ₂ Total Chlorine 0.05 - 5.0 mg/l as Cl ₂ Transmittance 0 - 100% T, Absorbance 0 - 3.000 AU (Higher Ranges Available)

INSTRUMENT SPECIFICATIONS

SIZE	40 x 20 x 10 inches (102 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	¼" FNPT Fitting
WASTE CONNECTION	¼" 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)

ACCESSORIES

Sample handling and conditioning accessories are available for this analyzer

www.ChemScan.com

Email: info@chemscan.com

800-665-7133 (toll-free in U.S.A. and Canada)

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