



**Simple, Accurate,
and Reliable
Single-Parameter
Analysis**



ChemScan mini UV-254 Analyzer

The ChemScan mini UV-254 Analyzer provides operators with reliable process chemistry measurements. This reduces the need for frequent manual sampling or laboratory analysis while producing the best water quality.

APPLICATIONS

- Analysis of UV-254 in potable water, wastewater and industrial processes

FEATURES

- Robust design for demanding operating environments
- Blockage-resistant internal sample tubing
- No filtration required on samples with low solids
- Minimal replacement parts for low maintenance
- Auto zero eliminates electrical/optical drift
- Simple field-adjustable calibration
- Separate enclosures for electronics and sample handling
- LED light source for 10+ years of life
- Self-cleaning to eliminate internal fouling
- Full range of sampling accessories available for all applications

BENEFITS

- Assure process conformance
- Auto cleaning and zeroing minimizes maintenance
- Control energy and chemical costs
- Confirm plant compliance in real time
- Improve process performance
- Reduce maintenance costs

ACCESSORIES



Sample-Extraction Accessory

Provides a continuous flow of fresh sample to the ChemScan mini analyzer. Designed to reject algae and other larger solids.



Submersible Pump

Provides a continuous flow of fresh sample to sample-extraction accessory.



Deck-Mounted, Self-Priming Pump

Provides a continuous flow of fresh sample to sample-extraction accessory (when submersible pump is not applicable).

Discuss with your ChemScan representative the most suitable accessories for your application.

FUNCTIONS AND OUTPUTS		PERFORMANCE SPECIFICATIONS ²	
ANALYZER OPERATION	Automated, Continuous Analysis of Water and Wastewater	READING INTERVAL	Continuous
MEASUREMENT PRINCIPLE	Optical Measurement at 254 nm	RESPONSE TIME	1 - 60 seconds (selectable)
NUMBER OF PARAMETERS	One	ACCURACY	0.05 AU
PARAMETER OPTION	UV-254 Percent Transmittance, 254 Absorbance or TOC Correlation	PRECISION	0.001 AU
DATA COMMUNICATIONS	4-20 mA (2 outputs)	ZERO DRIFT	Less than 0.1% of Range
DATA LOG	Time Date, Date, Concentration, Diagnostic Info, 10,000 events	RANGES	0.1 - 100% T, 0.0 - 2.0 AU
NUMBER OF SAMPLE LINES	One	INSTRUMENT SPECIFICATIONS	
AUTO MAINTENANCE	YES, Auto Clean	SIZE	66 cm tall x 24 cm wide x 18 cm deep (26 in tall x 9.5 in wide x 7 in deep)
CALIBRATION	Factory calibrated for reagent response, field adjustable	WEIGHT	12.25 kg (27 lbs)
SAMPLE PARAMETERS		FINISH COATING MATERIAL	Fiberglass Reinforced Polyester (FRP)
SAMPLE PRESSURE	Pressurized sample line required regulated to 13.8 - 551 kPa (2-80 psi), (sample conditioning and pressurizing accessories available)	POWER	120-240 VAC \pm 10%, 50-60 Hz, 70 VA
SAMPLE FLOW	0.5 to 1.0 l/min. 1 L Flush Per Sample (0.13 to 0.26 GPM - 0.26 Gallon Flush)	POWER CONNECTION	120 VAC US cord / plug set (Standard) (conduit connection optional)
FILTRATION REQUIREMENT	For samples with more than 150 mg/l TSS (filter required for WW influent and primary effluent)	POWER CONDITION	Dedicated branch circuit free from: surges/dips > 10%, RF and switching noise
STRAINER REQUIREMENT	#20 Mesh - Opening of 0.7 mm (0.027 inches) Provided	OPERATOR INTERFACE	2 x 20 LCD and 4 x 4 Keypad
SAMPLE TEMPERATURE	10 - 60°C (50 - 140°F)	SAMPLE CONNECTION	¼ in FNPT Fitting
SAMPLE TURBIDITY	60NTU or 150mg/l Suspended Solids (Turbidity included in measurement)	WASTE CONNECTION	1.83 M length of 15 mm (6 ft length of 5/8 in) ID clear vinyl tube provided (route to open drain)
OPERATING ENVIRONMENT		MOUNTING	Wall (Standard)
ENCLOSURE RATINGS	Upper Enclosure: NEMA 4X Fiberglass Reinforced Polyester, Acrylic window Lower Enclosure NEMA 4X Fiberglass Reinforced Polyester	MAINTENANCE	
AMBIENT TEMPERATURE	5 - 45°C (41 - 113°F)	ZEROING SOLUTION REFILL	As required (1 month at default read interval)
RELATIVE HUMIDITY	0 - 100% (Non-Condensing)	CLEANING SOLUTIONS REFILL	As required (3 months typical)
INSTALLATION	Indoor or Sheltered (from rain and sun) Location	PERISTALTIC ZEROING/ CLEANING PUMP HEAD	Replace after two years of 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

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