

ChemScan® A-2000 Chlorine Analyzer
TECHNICAL SPECIFICATION

FUNCTIONS AND OUTPUTS

Measurement Principle	Amperometric
Measuring Electrode	24K Gold
Reference Electrode	99.9% Copper
Calibration Technique	Response to Known Standards
Number of Parameters	One
Parameter Options	Free or Total Chlorine
Data Communications	4-20mA (Isolated)
Data Log	4000 value external module (optional)
Alarms	High and Low Alarms, relay contact
Analyzer Pump	Internal Peristaltic Pump for Buffer Injection
Zeroing	Chlorine free standard or optional calibration module
Automatic Cleaning	Mechanical Agitation of Non-conductive Media Between Electrodes
Sample Conditioning	5% White Vinegar (Free Chlorine) 5% White Vinegar plus Potassium Iodide (Total Chlorine)
Number of Sample Lines	1

PERFORMANCE SPECIFICATIONS

Reading Interval	Continuous
Response Time	4 seconds (initial response), 2.0 minutes max (full scale)
Range	0 to 0.5, 1.0, 2.0, 3.0, 5.0, 10.0, 20.0, 50.0 mg/l (field adjustable)
Accuracy	+/- 0.25% of full scale
Repeatability	1% of full scale
Sensitivity	0.001 mg/l
Resolution	0.001 mg/l (0-0.5 range), 0.01 mg/l (ranges over 1.0 mg/l)
Stability	+/- 1% of full scale per month

SAMPLE PARAMETERS

Sample Pressure	Free fall into overflow cup, continuous sample flow is recommended
Sample Flow	120 ml/min
Filtration Requirement	NONE (For samples meeting turbidity requirements)
Sample Temperature	2° – 60°C (Std)
Sample Turbidity	250 NTU (Max)
Sample pH	3.0 – 10.0
Sample Alkalinity	0.05 – 150 ppm

MAINTENANCE

Pump Tube Replacement	Every 3 months
Buffer Refill	As Required (2-4 weeks typ.)

INSTRUMENT SPECIFICATIONS

Size	11 x 9 x 6 in. (each enclosure)
Weight	22 lbs. (total)
Mounting	Wall (Std) or Stand (Opt), wall plate 26 X 9.5 X 7 in.
Finish Coating	Color Impregnated Fiber Reinforced Plastic
Power	120 VAC ± 10%, 50-60 Hz, 30 watts
Display	LCD, 3 digit, 1 cm high
Sample Cell Material	Polymer Body
Sample Connection	1/4" ID, 3/8" OD PVC tubing
Drain Connection	5/8" ID, 3/4" OD PVC tubing (Open Drain Required)

OPERATING ENVIRONMENT

Enclosure Ratings	NEMA 4X (Electronics Enclosure) NEMA 3R (Flow Cell Enclosure)
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Notes:

- I. Technical Specifications are subject to change without prior notice.