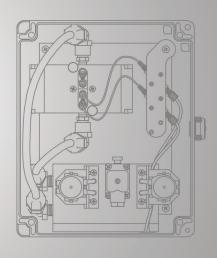


Simple, Accurate, and Reliable Single-Parameter Analysis





# ChemScan mini Low-Manganese Analyzer

The ChemScan mini Low-Manganese Analyzer provides operators with reliable process chemistry measurements. The analyzer data ensures proper control of manganese treatment processes. This reduces the need for frequent manual sampling or laboratory analysis while producing the best water quality.

#### **APPLICATIONS**

• Analysis of manganese 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
- Sample blank eliminates electrical/optical drift
- Simple field-adjustable calibration
- Separate enclosures for electronics and sample handling
- LED light source designed for 10+ years of life
- Self-cleaning to eliminate internal fouling
- Separate external sample-line cleaning available
- Full range of sampling accessories available for all applications

#### **BENEFITS**

- Assure process conformance
- Control energy and chemical costs
- Confirm plant compliance in real time
- Improve process performance
- Reduce reagent and 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.



#### **ChemScan Cartridge Filter Wand**

For high-solids applications. No pressurized air, water or chemicals required for cleaning.



### ChemScan mini Outdoor Enclosure

A turnkey solution for mounting the ChemScan analyzer and related items



#### **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.



## Mini Low-Manganese Technical Specifications<sup>1</sup>

FUNCTIONS AND OUT	PUTS	PERFORMANCE S	PECIFICATIONS <sup>2</sup>
ANALYZER OPERATION	Automated, Continuous Analysis of Water and Wastewater	READING INTERVAL	5-5999 minutes
MEASUREMENT PRINCIPLE	Reagent-Assisted Optical Absorbance with sample zero correction	DEFAULT READ INTERVAL	8 minutes
NUMBER OF PARAMETERS	One	RESPONSE TIME	5 minutes minimum
PARAMETER OPTION	Manganese (Total Soluble Mn)	ACCURACY	2% of value or 2x detection limit (whichever is greater) Per EPA SP 846 (The detection limit is the low concentration stated in ranges below)
DATA COMMUNICATIONS	4-20 mA (2 outputs)	PRECISION	Less than 0.5% of Range
DATA LOG	Time Date, Date, Concentration, Diagnostic Info, 5,000 events	ZERO DRIFT	Less than 0.5% of Range
NUMBER OF SAMPLE LINES	One	RANGES	Method 1072 0.003 - 3.00 mg/L
REAGENT ADDITION	YES, Direct Reagent Injection	INSTRUMENT SPECIFICATIONS	
AUTO MAINTENANCE	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 2-10 psi (15-70 kPa), (sample conditioning and pressurizing accessories available)	POWER	120-240 VAC ±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 mgl 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	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	
AMBIENTTEMPERATURE	5 - 45°C (41 – 113°F)	REAGENT	As required (3 months at default read interval)
RELATIVE HUMIDITY	0 - 100% (Non-Condensing)	REPLACEMENT	
NSTALLATION	Indoor or Sheltered (from rain and sun) Location	CLEANING SOLUTIONS REFILL	As required (3 months typical)
		PERISTALTIC MIXING PUMP HEAD	Replace after six months of operation
		PERISTALTIC MIXING PUMP FULL ASSEMBLY	Replace after twelve months of operation

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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