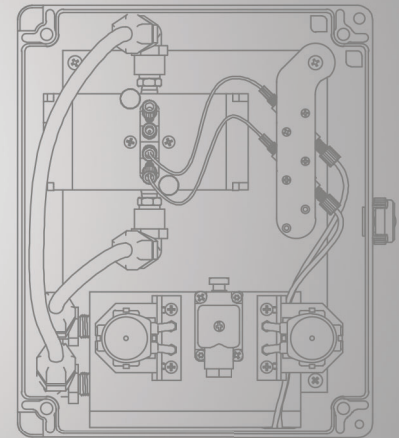


**Simple, Accurate,
and Reliable
Single Parameter
Analysis**



ChemScan mini Manganese Analyzer

The ChemScan mini 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 electronic and sample handling
- LED Light source for 10+ years design 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
- Low 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)

FUNCTIONS AND OUTPUTS

ANALYZER OPERATION	Automated, Continuous Analysis of Water and Wastewater
MEASUREMENT PRINCIPLE	Reagent-Assisted Optical Absorbance with sample zero correction
NUMBER OF PARAMETERS	One
PARAMETER OPTION	Manganese (Total Soluble Mn)
DATA COMMUNICATIONS	4-20 mA (2 outputs)
DATA LOG	Time Date, Date, Concentration, Diagnostic Info, 5,000 events
NUMBER OF SAMPLE LINES	One
REAGENT ADDITION	YES, Direct Reagent Injection
AUTO MAINTENANCE	Auto Clean
CALIBRATION	Factory calibrated for reagent response, field adjustable

SAMPLE PARAMETERS

SAMPLE PRESSURE	Pressurized sample line required regulated to 2-10 psi (15-70 kPa), (sample conditioning and pressurizing accessories available)
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 (filter required for WW influent and primary effluent)
STRAINER REQUIREMENT	#20 Mesh - Opening of 0.69 mm (0.027 inches) Provided
SAMPLE TEMPERATURE	50-140°F (10° - 60°C)
SAMPLE TURBIDITY	60NTU or 150mg/l Suspended Solids

OPERATING ENVIRONMENT

ENCLOSURE RATINGS	Upper Enclosure: NEMA 4X Fiberglass Reinforced Polyester, Acrylic window Lower Enclosure NEMA 4X Fiberglass Reinforced Polyester
AMBIENT TEMPERATURE	41 - 113°F (5° - 45°C)
RELATIVE HUMIDITY	0 - 100% (Non-Condensing)
INSTALLATION	Indoor or Sheltered (from rain and sun) Location

PERFORMANCE SPECIFICATIONS²

READING INTERVAL	5- 5999 minutes (Method 1063)
DEFAULT READ INTERVAL	8 minutes (Method 1063)
RESPONSE TIME	5 minutes minimum (Method 1063)
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)
PRECISION	Less than 0.5% of Range
ZERO DRIFT	Less than 0.5% of Range
RANGES	Method 1063 0.02 - 8.0 mg/L

INSTRUMENT SPECIFICATIONS

SIZE	26" tall x 9.5" wide x 7" deep (66 cm tall x 24 cm wide x 18 cm deep)
WEIGHT	27 lbs (12.25 kg)
FINISH COATING MATERIAL	Fiberglass Reinforced Polyester (FRP)
POWER	120-240 VAC ±10%, 50-60 Hz, 70 VA
POWER CONNECTION	120 VAC US cord / plug set (Standard) (conduit connection optional)
POWER CONDITION	Dedicated branch circuit free from: surges/dips > 10%, RF and switching noise
OPERATOR INTERFACE	2 x 20 LCD and 4 x 4 Keypad
SAMPLE CONNECTION	¼" FNPT Fitting
WASTE CONNECTION	6 foot length of 5/8" ID clear vinyl tube provided (route to open drain)
MOUNTING	Wall (Standard)

MAINTENANCE

REAGENT REPLACEMENT	As required (Method 1063 - 3 months typical, Method 1064 - 6 months typical)
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