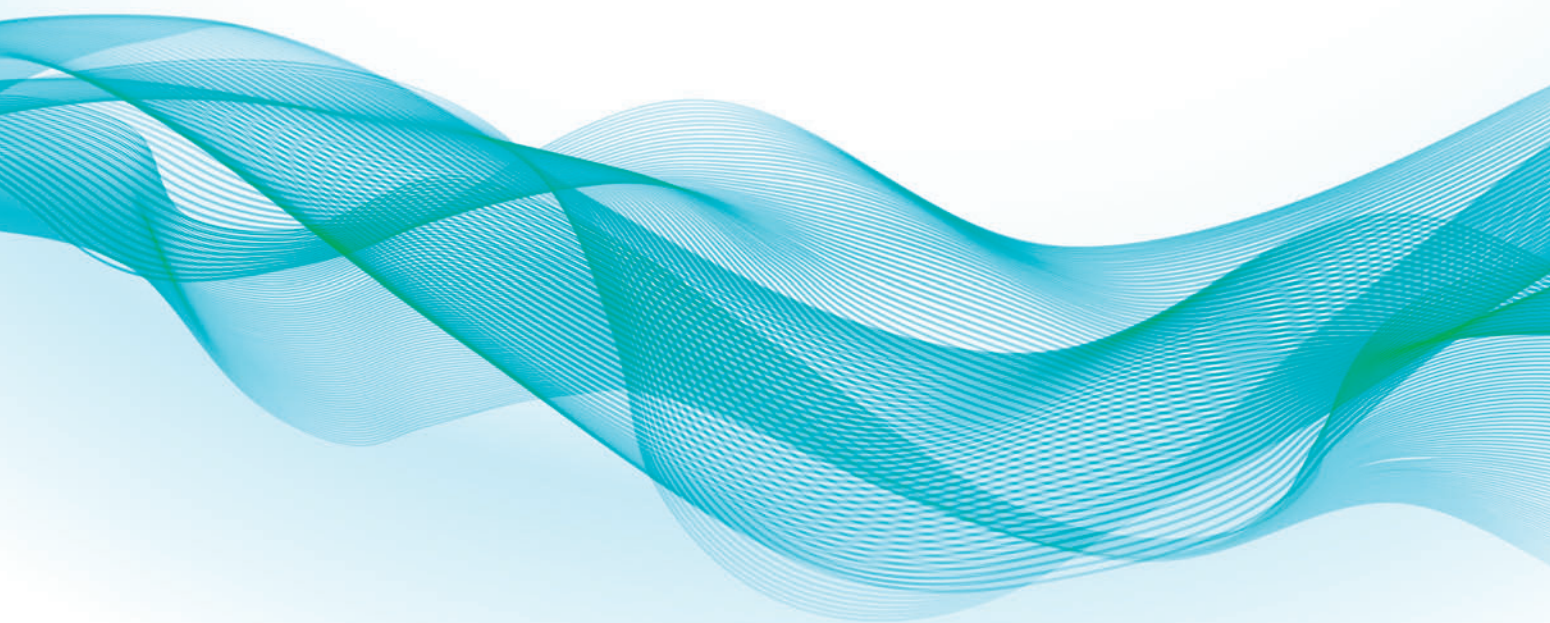


**BESTOBELL**  
**AQUATRONIX**  
SINCE / DEPUIS 1953

BEP-Bestobell  
[www.bestobell.com](http://www.bestobell.com)

  
***ChemScan***<sup>®</sup>  
An  **In-Situ** Brand



# ChemScan® mini Analyzers

## Accurate, Reliable AND Affordable Single Parameter Analysis

### Capabilities:

- Continuous, Real Time Analysis of Constant Flow Sample Stream
- Isolated Analog Output

### Features:

- Long Life LED Light Source
- Low Maintenance
- Large I.D. Flow Paths
- Simple Field Adjustable Calibration
- Direct Diode Detection
- Sealed Electronics Enclosure
- Auto Cleaning and Zeroing
- No Lamp Replacement or Alignment Required
- No Filtration Required
  - When TSS < 150 mg/L
  - After Secondary Clarifier

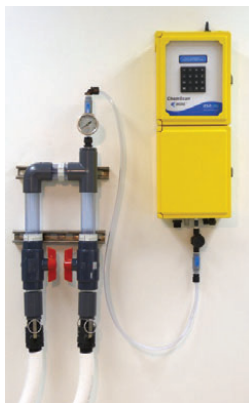


The Fond du Lac Wisconsin Regional Wastewater Treatment Facility has saved thousands in chemical costs.

The Fond du Lac facility, with an average flow of 9.8 MGD, treats all of the city's wastewater along with that of neighboring communities. For the last three years, the facility has used a ChemScan mini oP to monitor the chemical feed pump that doses Aluminum Sulfate for Phosphate removal. Jeremy Cramer, Operations Manager for the plant, reports "Alum cost savings of approximately \$100,000 per year have been realized." In the last 6 months, the unit has been tied directly to the chemical feed pump via their SCADA system. The system ramps the chemical dosing up and down as needed. "We are on pace to save approximately \$50,000 more per year." This results in a total savings estimated at \$150,000 per year.



## ChemScan® mini Accessories



The Sample Extraction Accessory provides a pressurized sample to the ChemScan mini analyzer where NTU is less than 60 and TSS is less than 150 mg/L

TSS - Total Suspended Solids  
NTU - Nephelometric Turbidity Units



ChemScan Cartridge Filter Wand  
No cleaning air, water or chemicals required. Filter is disposable; replace monthly in less than 5 minutes.



ChemScan mini Outdoor Enclosure.  
A turnkey solution for mounting the ChemScan and related items.



Submersible Pump  
1.3" Max. Dia. Solids  
Weight: 20 - 30 lbs  
Power: 1/4 - 3/4 HP, 120 VAC 60 Hz  
Power Cable: 20 feet



Deck Mounted Self Priming Pump  
1/3 - 1/2 HP  
Weight: 40 lbs  
Mounting: Base

## General (Common to all minis)

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Accuracy:         | 2% of value or 2x detection limit (whichever is greater)       |
| Environment:      | 5 - 50 degrees C                                               |
| Power:            | 100 - 240 VAC, 50 W                                            |
| Enclosure:        | NEMA 4X                                                        |
| Safety Approval:  | CSA-US                                                         |
| Relay Contacts:   | 1 SPDT Concentration, 1 SPDT Programmable                      |
| Serial Interface: | Serial, RS-232, Modbus RTU                                     |
| Analog Output:    | Isolated 4-20 mA                                               |
| Sample:           | 0.5 - 1 Liter/analysis, pressure to 10 psi (UV-254 Continuous) |

## ChemScan mini oP

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Range (as PO <sub>4</sub> ):   | 0.1 - 9.0 mg/L (Method 1005), 0.3 - 18.0 mg/L (Method 1006) |
| Range (as PO <sub>4</sub> -P): | 0.03 - 3.0 mg/L (Method 1003), 0.1 - 6.0 mg/L (Method 1004) |
| Cycle Interval:                | 5 minutes to 9999 minutes (field programmable)              |
| Maintenance:                   | Reagent replacement every 3 months, pump kit yearly         |

## ChemScan mini oP XR

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| Range (as P):                | 0.1 - 20.0 mg/L (Method 1069)                        |
| Range (as PO <sub>4</sub> ): | 0.3 - 60.0 mg/L (Method 1070)                        |
| Cycle Interval:              | 5 minutes to 9999 minutes (field programmable)       |
| Maintenance:                 | Reagent replacement every 3 months, pump kit yearly* |

## ChemScan mini Ammonia

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Range (as N):   | 0.03 - 25.0 mg/L (Method 1079)                       |
| Cycle Interval: | 15 minutes to 9999 minutes (field programmable)      |
| Maintenance:    | Reagent replacement every 3 months, pump kit yearly* |

## ChemScan mini LowMn

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Range:          | 0.003 - 3.0 mg/L (Method #1072)                      |
| Cycle Interval: | 5 minutes to 9999 minutes (field programmable)       |
| Maintenance:    | Reagent replacement every 3 months, pump kit yearly* |

## ChemScan mini LoP

|                                |                                                      |
|--------------------------------|------------------------------------------------------|
| Range (as PO <sub>4</sub> ):   | 0.02 - 3.0 mg/L (Method 1071)                        |
| Range (as PO <sub>4</sub> -P): | 0.003 - 1.00 mg/L (Method 1034)                      |
| Cycle Interval:                | 8 minutes to 9999 minutes (field programmable)       |
| Maintenance:                   | Reagent replacement every 3 months, pump kit yearly* |

## ChemScan mini LowAm

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Range (as N):   | 0.01 - 10.0 mg/L (Method 1066)                       |
| Cycle Interval: | 15 minutes to 9999 minutes (field programmable)      |
| Maintenance:    | Reagent replacement every 3 months, pump kit yearly* |

## CHLORAMINATION SUITE

### ChemScan mini FreeAm

|                 |                                                   |
|-----------------|---------------------------------------------------|
| Range (as N):   | 0.01 - 2.00 mg/L (Method 1036)                    |
| Cycle Interval: | 18 minutes to 9999 minutes (field programmable)   |
| Maintenance:    | Reagent replacement every month, pump kit yearly* |

### ChemScan mini Mono

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| Range (as CL <sub>2</sub> ): | 0.05 - 10.0 mg/L (Method 1035)                       |
| Cycle Interval:              | 10 minutes to 9999 minutes (field programmable)      |
| Maintenance:                 | Reagent replacement every 3 months, pump kit yearly* |

## DRINKING WATER SUITE

### ChemScan mini Mn

|                 |                                                                    |
|-----------------|--------------------------------------------------------------------|
| Range:          | 0.02 - 8.0 mg/L (Method 1063, 1064)                                |
| Cycle Interval: | 15 min. (1064) 10 min. (1063) to 9999 minutes (field programmable) |
| Maintenance:    | Reagent replacement every 3 months, pump kit yearly*               |

### ChemScan mini Fe

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Range:          | 0.01 - 5.0 mg/L (Method 1039)                        |
|                 | 0.02 - 20.0 mg/L (Method 1037)                       |
| Cycle Interval: | 8 minutes to 9999 minutes (field programmable)       |
| Maintenance:    | Reagent replacement every 3 months, pump kit yearly* |

## WASTEWATER DISINFECTION SUITE

### ChemScan mini Sulfite

|                 |                                                   |
|-----------------|---------------------------------------------------|
| Range:          | 0.01 - 4.0 mg/L (Method 1068)                     |
| Cycle Interval: | 5 minutes to 9999 minutes (field programmable)    |
| Maintenance:    | Reagent replacement every month, pump kit yearly* |

### ChemScan mini LowChlor

|                              |                                                   |
|------------------------------|---------------------------------------------------|
| Range (as CL <sub>2</sub> ): | 0.01 - 2.00 mg/L (Method 1081)                    |
| Cycle Interval:              | 4 minutes to 9999 minutes (field programmable)    |
| Maintenance:                 | Reagent replacement every month, pump kit yearly* |

## ChemScan mini LowCrVI

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Range:          | 1 -1000 µg/L (Method 1041)                           |
|                 | 0.03 - 5.0 mg/L (Method 1040)                        |
| Cycle Interval: | 12 minutes to 9999 minutes (field programmable)      |
| Maintenance:    | Reagent replacement every 3 months, pump kit yearly* |

## ChemScan mini Ni

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Range:          | 0.05 - 6.0 mg/L (Method 1057)                        |
| Cycle Interval: | 8 minutes to 9999 minutes (field programmable)       |
| Maintenance:    | Reagent replacement every 3 months, pump kit yearly* |

## ChemScan mini Silica

|                 |                                                      |
|-----------------|------------------------------------------------------|
| Range:          | 0.05 - 15.0 mg/L (Method 1058)                       |
| Cycle Interval: | 7 minutes to 9999 minutes (field programmable)       |
| Maintenance:    | Reagent replacement every 6 months, pump kit yearly* |

## ChemScan mini Peracetic Acid (PAA)

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| Range:          | 0.015 - 5.0 mg/L (Method 1073)                      |
| Cycle Interval: | 5 minutes to 9999 minutes (field programmable)      |
| Maintenance:    | Reagent replacement every 4 weeks, pump kit yearly* |

## ChemScan mini UV254

|                 |                             |
|-----------------|-----------------------------|
| Range (as N):   | 0.1 - 100%T                 |
| Cycle Interval: | Continuous                  |
| Sample:         | 2 - 10 psi continuous flow  |
| Maintenance:    | Replace zero/clean solution |

## ChemScan mini Cu

|                 |                                                                                |
|-----------------|--------------------------------------------------------------------------------|
| Range:          | 0.02 - 6.0 mg/L (Method 1065)                                                  |
|                 | 0.001 - 2.00 mg/L (Method 1056)                                                |
|                 | 0.01 - 6.00 mg/L (Method 1075)                                                 |
| Cycle Interval: | 4 min. (1027) 5 min. (1065) 4 min. (1056) to 9999 minutes (field programmable) |
| Maintenance:    | Reagent replacement every 3 months, pump kit yearly*                           |

## CHLORAMINATION ANALYZER

### ChemScan mini ChlorAm

|                 |                                                           |
|-----------------|-----------------------------------------------------------|
| Range:          | Free Ammonia 0.025 - 2.00 mg/L                            |
|                 | Total Ammonia 0.02 - 3.00 mg/L                            |
|                 | Monochloramine 0.02 - 5.00 mg/L                           |
|                 | Ratio - Calculated using Total Ammonia and Monochloramine |
| Cycle Interval: | 18 minutes to 9999 minutes with 9 minute updates          |
| Maintenance:    | Reagent replacement every month, pump kit yearly*         |

\* Based on default cycle time

**BESTOBELL**  
**AQUATRONIX**  
SINCE DEPUIS 1953

Head Office  
2880 Argenta Road, Unit 3  
Mississauga, ON L5N 7X8  
salesdesk@bestobell.com  
1-800-668-3979  
www.bestobell.com

Montréal Office  
970 Montée de Liesse, #204  
St-Laurent, QC H4T 1W7  
ventes@bestobell.com  
1-877-331-1225

Atlantic Office  
166 North Side Road  
Riverport, NS B0J 2W0  
dmossmen@bestobell.com  
902-529-0355

www.ChemScan.com

1-800-665-7133 (toll-free in U.S.A. and Canada)  
2325 Parklawn Dr, Suite I, Waukesha, WI 53186, USA

Since 1953, Quality Products to Sense, Measure & Control  
Depuis 1953, Produits De Qualités Pour Détecter, Mesurer & Contrôler