

# NEXTChem Process Analyzers, Inc.



## About NEXTChem Process Analyzers

NEXTChem Process Analyzers, Inc. produces chemical process analyzers for industries such as petroleum, metal pre-treatment, metal finishing, chemical, mining, and wastewater.

NEXTChem utilizes non-proprietary electronics which means as new products become available in industrial automation market our analyzers can seamlessly incorporate these improvements.

NEXTChem is dedicated to producing, servicing and continuously improving the best process analyzers in the world.



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## MINIChem Series Process Analyzers

The MINIChem process analyzer can perform a limited amount of process control and chemical measurements.

Its sample system can be designed for either automated dilution or very dirty sample streams. All NEXTChem analyzers are designed to operate *FILTER-FREE*; this type of sampling **INCREASES RELIABILITY** and **DECREASES MAINTENANCE**. This sample system makes it possible to collect samples containing  $\leq 6$  mm particles.

Two types of measurement methods are used for almost all NEXTChem analyzers: titration and (ion selective) standard addition. Both types of measurement methods can be used on all NEXTChem analyzers making each type of analyzer extremely flexible.

All NEXTChem analyzers utilize modern electronics. Modbus is a standard feature of all analyzers. Ethernet and a GSM/SMS modem are also available.

## MINIChem Technical Specifications

|                         |       |  |
|-------------------------|-------|--|
| Touchscreen             | 1     | 5.7" Grayscale or 6.5" Color           |
| Sample Streams          | 2 / 4 | ½" (12 mm) Sample Line                 |
| Total Analyses          | 2 / 4 | Titration and/or Ion Selective         |
| Analog Outputs          | 2 / 4 | 4 – 20 mA (Sourcing)                   |
| Precision Pumps         | 4     | ± 0.001 mL                             |
| Probe Inputs            | 3     | pH / ISE / ORP / Color                 |
| Process Control Points  | 1 / 2 | Pneumatic Pump (3 GPM)                 |
| Alarm Relay             | 1     | 2 A (24 VDC)                           |
| Serial Outputs          | 1     | RS232 / Modbus                         |
| DeviceNet / Profibus-DP | 1     | slave only                             |
| Ethernet                | 1     | 10/100 Mbs (Optional)                  |
| Titration               |       | dilution ± 0.5%, non-dilution ± 0.2 %  |
| Ion Selective           |       | dilution ± 5.0 %, non-dilution ± 2.0 % |

## Analyses For Industries

The NEXTChem family of analyzers are designed to operate in a wide variety industries and in difficult environments.

Metal Finishing: Free/Total Acid ( $H_3PO_4$ ), Iron ( $Fe^{+2}$ ), Nitrite ( $NO_2^-$ )

Mining: Silver ( $Ag^+$ ), Copper ( $Ag^+$ ), Tin ( $Sn^{+2}$ )

Chemical: Hydrogen Peroxide ( $H_2O_2$ ), Chloride ( $Cl^-$ ), Ozone ( $O_3$ )

Power Gen.: Boron ( $H_3BO_3$ ), Sodium ( $Na^+$ ), Chlorine ( $Cl_2$ )

Waste Water: Ammonia ( $NH_3$ ), Nitrate ( $NO_3^-$ ), Cyanide ( $CN^-$ )

Drinking Water: Hardness ( $Ca^{+2}$  &  $Mg^{+2}$ ), Fluoride ( $F^-$ ), Alkalinity ( $H_2CO_3$ )

Textile: Indigo ( $C_{16}H_{10}N_2O_2$ ), Hydrosulfite ( $S_2O_4^{2-}$ )

Food/Beverage: Phosphoric Acid ( $H_3PO_4$ ), Ascorbic Acid ( $C_6H_8O_6$ )

**Ask NEXTChem to see if we can automate your chemical analysis!**

***Analyzers Tough Enough for Industry***