

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.



Contact Us:
NEXTChem Process Analyzers
 1900 N Austin Ave. Suite 101
 Chicago, IL. 60639 USA

OFFICE (773) 637-NEXT (6398)
FAX (773) 637-7260

HANDYChem Process Analyzer

The HANDYChem is a cost effective process analyzer.

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 ≤ 6 mm particles.

Two types of measurement methods are used for almost all NEXTChem analyzers: titration and (ion selective) standard addition. Both types of measurements 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 GSM/SMS modems are also available.

HANDYChem Technical Specifications

Touchscreen	1	5.7" Black & White
Sample Streams	4	½" (12 mm) Sample Line
Total Analyses	4	Titration and/or Ion Selective
Analog Outputs	4	4 – 20 mA (souring)
Precision Pumps / Ring Pumps	2 / 3	± 0.001 mL / ± 0.1mL
Probe Inputs	2	pH/ISE/ORP/Color
Process Control Points	0	not available
Alarm Relay	1	2 A maximum
Serial Outputs	1	RS232 / Modbus
DeviceNet / Profibus-DP	0	not available
Ethernet	1	10/100 Mbs
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^-)

Petroleum: Sulfite (SO_3^{-2}), Hydrogen Sulfide (H_2S), Caustic ($NaOH$)

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)

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

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ECOChem Series Process Analyzer

The ECOChem is a very inexpensive process analyzer.

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 ≤ 6 mm particles.

Two types of measurement methods are used for almost all NEXTChem analyzers: titration and (ion selective) standard addition. Both types of measurements 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. A GSM/SMS modem is also available.

ECOChem Technical Specifications

User Interface	1	2.4" Black & White
Sample Streams	2	½" (12 mm) Sample Line
Total Analyses	2	Titration and/or Ion Selective
Analog Outputs	2	4 – 20 mA (souring)
Precision Pumps / Ring Pumps	2 / 3	± 0.001 mL / ± 0.1 mL
Probe Inputs	2	pH/ISE/ORP/Color
Process Control Points	0	not available
Alarm Relay	1	2 A maximum
Serial Outputs	1	RS232 / Modbus
DeviceNet / Profibus-DP	0	not available
Ethernet	0	not available
Titration		dilution $\pm 0.5\%$, non-dilution $\pm 0.2\%$
Ion Selective		dilution $\pm 5.0\%$, non-dilution $\pm 2.0\%$

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^-)

Petroleum: Sulfite (SO_3^{-2}), Hydrogen Sulfide (H_2S), Caustic ($NaOH$)

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)

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

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About NEXTChem Process Analyzers

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

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CHIPChem Series Process Analyzer

The CHIPChem process analyzer can perform extensive chemical measurements.

Its sample system is configured to measure very high concentration chemistries. All wetted surfaces are constructed completely of PFA Teflon valves and fittings. In addition; the CHIPChem is also capable collecting two different sample sizes. These sample sizes can be between 0.25 – 2.0 mL.

Two types of measurement methods are used for almost all NEXTChem analyzers: titration and (ion selective) standard addition. Both types of measurements 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 GSM/SMS modems are also available.

CHIPChem Technical Specifications

Touchscreen	1	5.7" Color
Sample Streams	4	¼" (6 mm) Sample Line
Total Analyses	4	Titration and/or Ion Selective
Analog Outputs	4	4 – 20 mA (souring)
Precision Pumps	4	± 0.001 mL
Probe Inputs	3	pH/ISE/ORP/Color
Process Control Points	0	not available
Alarm Relay	1	2 A maximum
Serial Outputs	1	RS232 / Modbus
DeviceNet / Profibus-DP	1	Slave Only
Ethernet	1	10 / 100 Mbs
Titration		dilution ± 0.5%, non-dilution ± 0.2%
Ion Selective		dilution ± 5.0%, non-dilution ± 2.0%

Analyses For Fabs

The CHIPChem is designed to operate in a wide variety of difficult chemistries.

ECD: Copper (Cu⁺²), Sulfuric Acid (H₂SO₄), Chloride (Cl⁻)

SC 1 Clean: Hydrogen Peroxide (H₂O₂), Ammonium Hydroxide (NH₄OH)

SPM Etch: Hydrogen Peroxide (H₂O₂), Sulfuric Acid (H₂SO₄)

MAE: Nitric Acid (HNO₃), Hydrofluoric Acid (HF)

BOE Etch: Ammonium Hydroxide (NH₄OH), Ammonium Fluoride (NH₄F)

ITO Etch: Hydrochloric Acid (HCl), Nitric Acid (HNO₃)

Hot Phos: Phosphoric Acid (H₃PO₄)

KOH: Potassium Hydroxide (KOH)

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MINIChem Series Process Analyzer

The MINIChem process analyzer can perform a limit 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 ≤ 6 mm particles.

Two types of measurement methods are used for almost all NEXTChem analyzers: titration and (ion selective) standard addition. Both types of measurements 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 GSM/SMS modems are also available.

MINIChem Technical Specifications

Touchscreen	1	5.7" Grayscale or 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 (souring)
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 maximum
Serial Outputs	1	RS232 / Modbus
DeviceNet / Profibus-DP	1	not available
Ethernet	1	10 / 100 Mbs
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 (H₃PO₄), Iron (Fe⁺²), Nitrite (NO₂⁻)

Petroleum: Sulfite (SO₃⁻²), Hydrogen Sulfide (H₂S), Caustic (NaOH)

Chemical: Hydrogen Peroxide (H₂O₂), Chloride (Cl⁻), Ozone (O₃)

Power Gen.: Boron (H₃BO₃), Sodium (Na⁺), Chlorine (Cl₂)

Waste Water: Ammonia (NH₃), Nitrate (NO₃⁻), Cyanide (CN⁻)

Drinking Water: Hardness (Ca⁺² & Mg⁺²), Fluoride (F⁻), Alkalinity (H₂CO₃)

Food/Beverage: Phosphoric Acid (H₃PO₄), Ascorbic Acid (C₆H₈O₆)

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