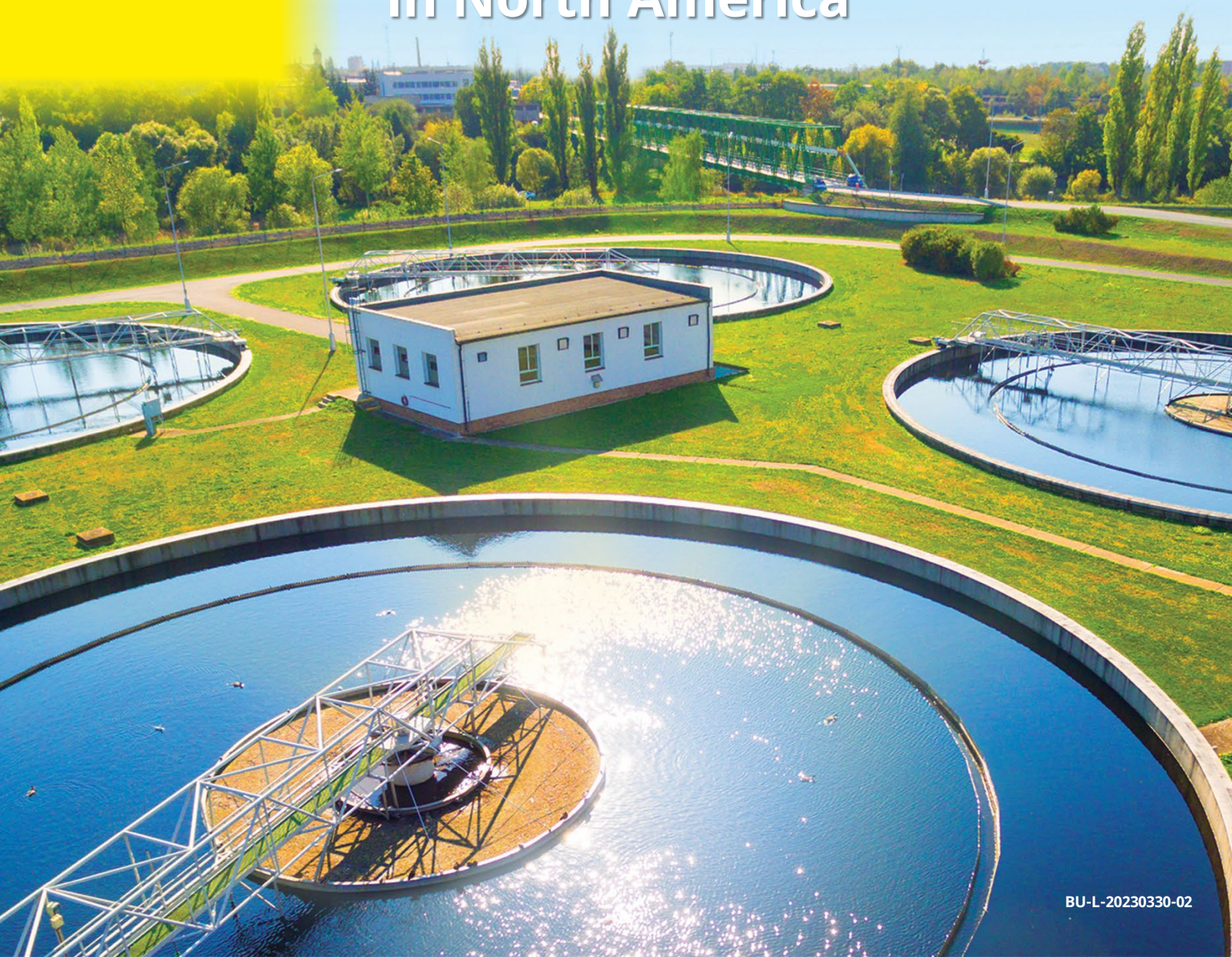


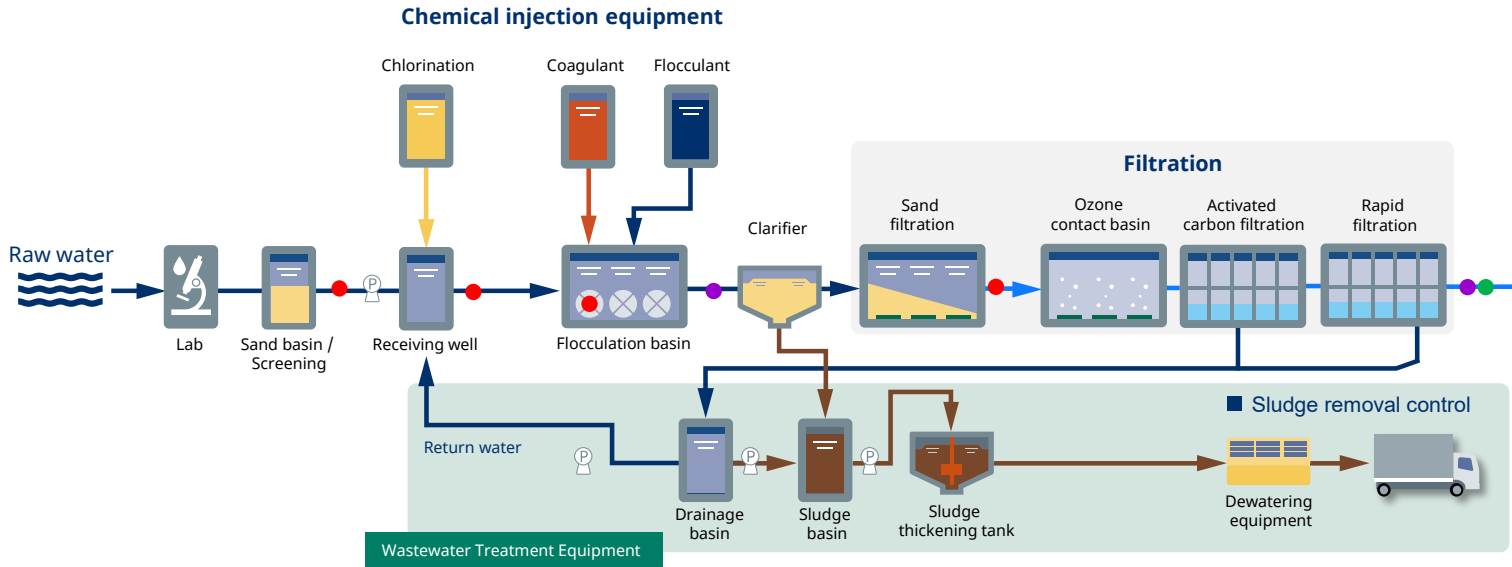
Yokogawa in the Water Industry in North America



Drinking Water Treatment Solutions

WATER INTAKE

WATER TREATMENT



WATER INTAKE

■ Lab

- Flow Imaging Microscope - FlowCam
- Process Gas Chromatograph - GC8000

■ Raw Water Quality Management

- Turbidity Analyzer - TB820D / FLXA402T
- pH/ORP Analyzers & Sensors ●
- Temperature Transmitters
- Conductivity Analyzers & Sensors ●

■ Water Intake Flow Control

- Magnetic Flowmeters

Ⓟ Pump Monitoring & Predictive Maintenance

- Vibration Sensors - Sushi Sensor XS770A
- Data Logging & AI Anomaly Detection - GA10

WATER TREATMENT

■ Chlorine Injection

- Free Available Chlorine Analyzer - FC800D / FLXA402T
- pH/ORP Analyzers & Sensors ●

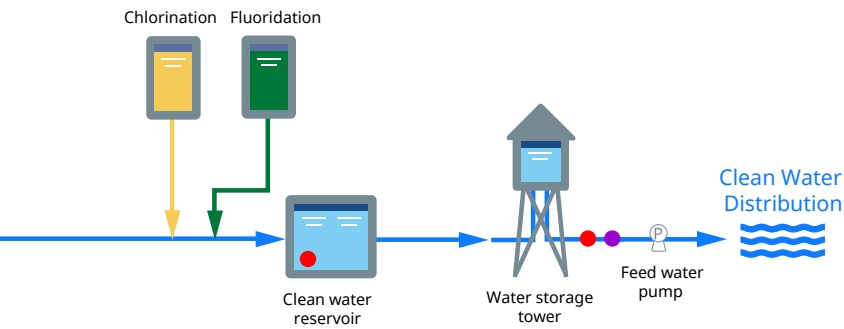
■ Coagulation/Flocculation Control

- Magnetic Flowmeters
- pH/ORP Analyzers & Sensors ●
- Controllers - UTAdvanced
- Temperature Transmitters
- Turbidity Analyzer - TB820D / FLXA402T

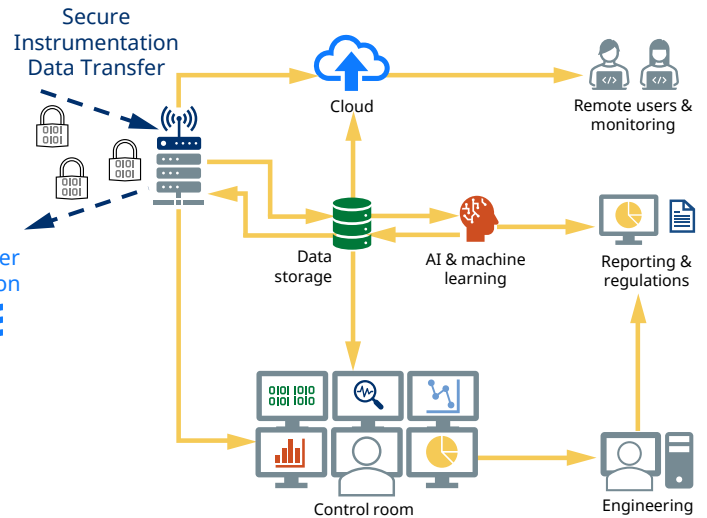
■ Filtration Management

- Turbidity Analyzer - TB820D / FLXA402T
- Free Available Chlorine Analyzer - FC800D / FLXA402T
- Conductivity Analyzers & Sensors ●
- Magnetic Flowmeters
- Pressure Transmitters
- pH/ORP Analyzers & Sensors ●
- Dissolved Oxygen Analyzers & Sensors ●

WATER DISTRIBUTION



DATA, CONTROL & REPORTING



WATER DISTRIBUTION

■ Chlorination/Fluoridation Injection

- Magnetic Flowmeters
- Free Available Chlorine Analyzer - FC800D / FLXA402T
- Temperature Transmitters
- pH/ORP Analyzers & Sensors ●

■ Finished Water Quality Control

- Turbidity Analyzer - TB820D / FLXA402T
- Free Available Chlorine Analyzer - FC800D / FLXA402T
- pH/ORP Analyzers & Sensors ●
- Temperature Transmitters
- Magnetic Flowmeter

■ Water Storage Towers

- Level Transmitters
- Pressure Transmitters
- Temperature Transmitters
- Magnetic Flowmeter

🔔 Pump Monitoring & Predictive Maintenance

- Vibration Sensors – Sushi Sensor XS770A
- Data Logging & AI Anomaly Detection – GA10

■ Clean Water Distribution Network

- Pressure Transmitters
- Magnetic Flowmeters
- Temperature Transmitters
- pH/ORP Analyzers & Sensors ●
- Free Available Chlorine Analyzer - FC800D / FLXA402T
- Conductivity Analyzers & Sensors ●

DIGITAL TRANSFORMATION WATER SOLUTIONS

■ Operation

- Digital twin for predictive suitable operation
- Smart industry readiness index (S.I.R.I.)
- Cost estimator
- Procedural automation & remote monitoring
- Water leakage management for water distribution
- Leak detection system for pipelines
- Energy-saving modeling system for aeration tanks
- Wireless surveys

■ Maintenance

- Plant asset management, repair, & calibration
- Augmented reality (AR) for safe and efficient site work
- Computerized maintenance management system
- Digital control of work software (RAP4)

■ Cybersecurity

- Security assessment, networking & audits
- Security information service
- Antivirus and OS patch improvements
- Malware inactivation service
- Dashboard & KPI development (AOG)
- Virus check service
- Cloud operations, backup and recovery

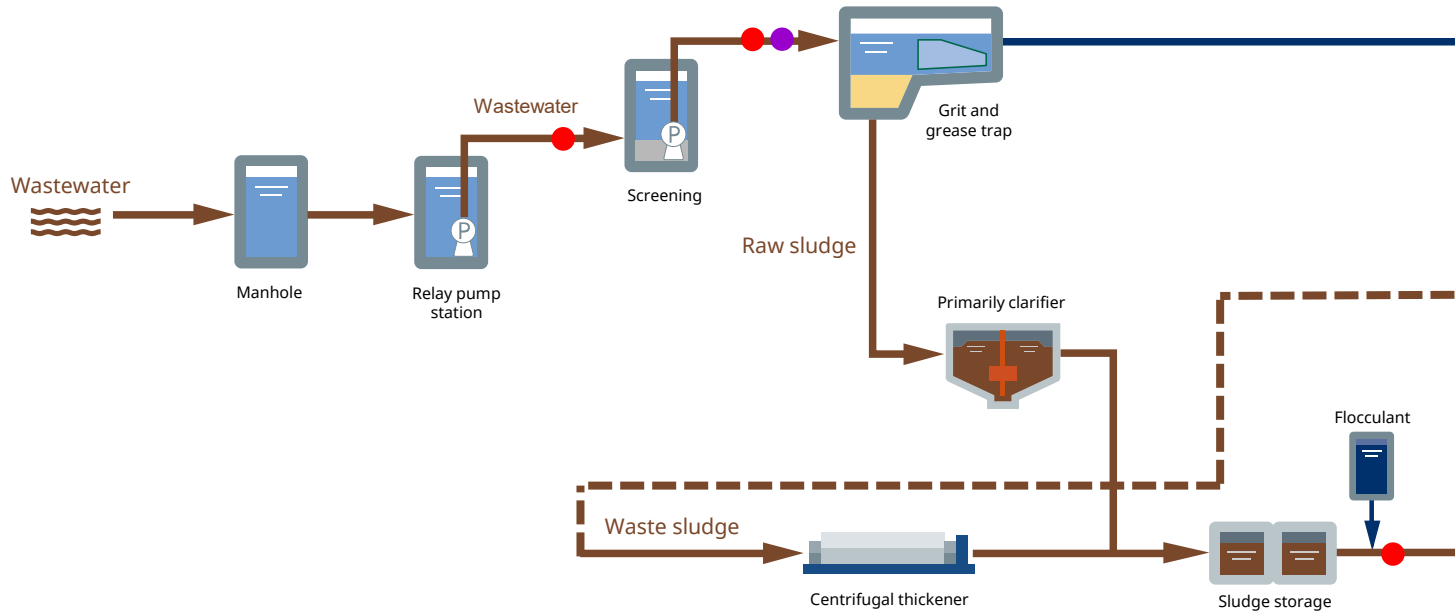
■ Disaster Prevention

- Water-gate control
- Sound & odor monitoring
- Dam and flood level monitoring

Wastewater Treatment Solutions

SEWER AND PUMP STATIONS

WASTEWATER TREATMENT



SLUDGE TREATMENT

SEWER AND PUMP STATIONS

■ Influent Wastewater

- Magnetic Flowmeter
- pH/ORP Analyzers & Sensors ●
- Temperature Transmitters
- Conductivity Analyzers & Sensors ●

🔗 Pump Monitoring & Predictive Maintenance

- Vibration Sensors – Sushi Sensor XS770A
- Data Logging & AI Anomaly Detection – GA10

SLUDGE TREATMENT

■ Sludge Feed Control

- Pressure Transmitters
- Magnetic Flowmeters

■ Sludge Feed, Storage, & Removal Control

- Level Transmitters
- Pressure Transmitters
- Magnetic Flowmeters

■ Flocculant Monitoring

- pH/ORP Analyzers & Sensors ●

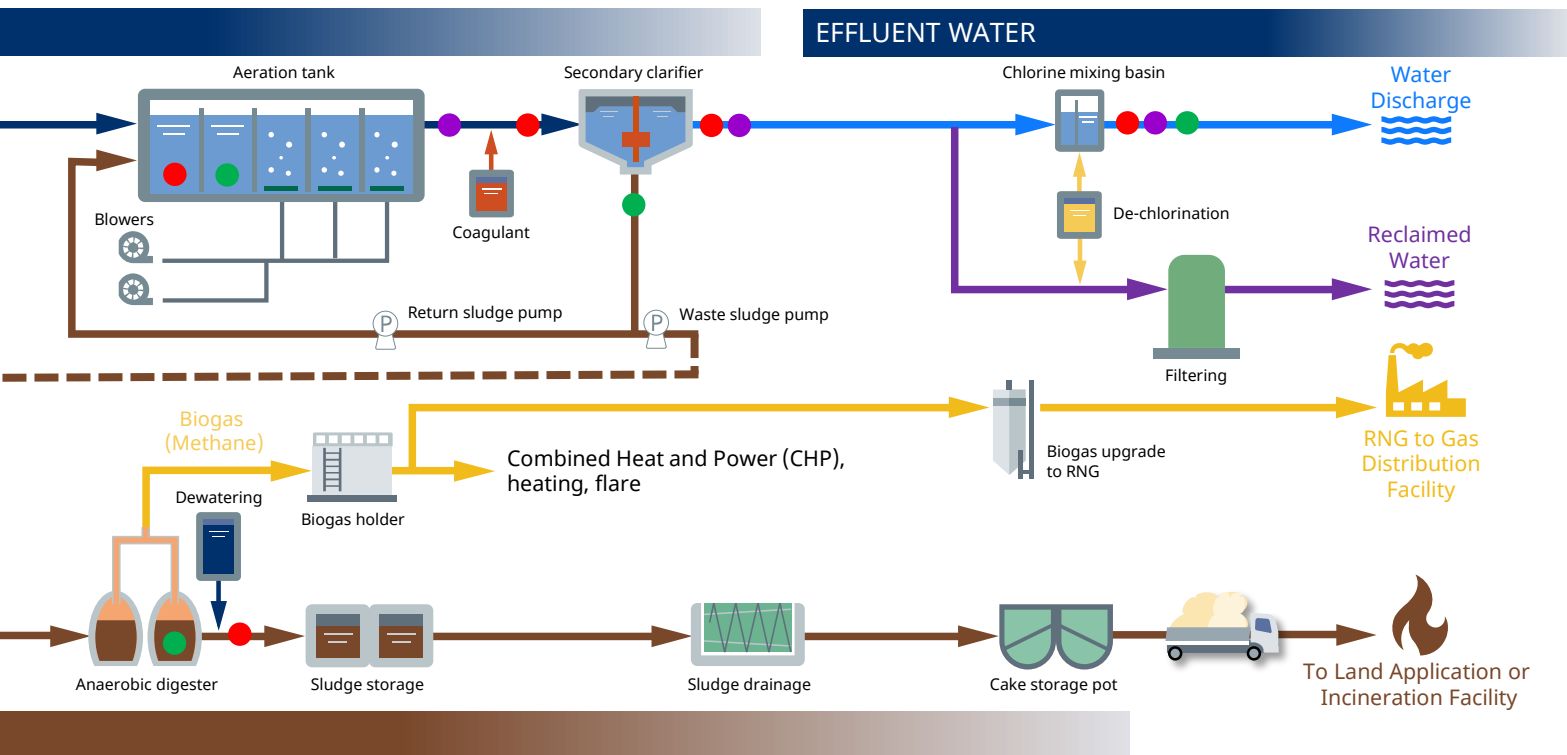
WASTEWATER TREATMENT

■ Aeration Tank

- pH/ORP Analyzers & Sensors ●
- Conductivity Analyzers & Sensors ●
- Dissolved Oxygen Analyzers & Sensors ●
- Temperature Transmitters

■ Flocculant Monitoring

- pH/ORP Analyzers & Sensors ●



WASTEWATER TREATMENT (continued...)

■ Aeration Tank

- pH/ORP Analyzers & Sensors ●
- Conductivity Analyzers & Sensors ●
- Dissolved Oxygen Analyzers & Sensors ●
- Temperature Transmitters

⚙️ Blower, Pump Monitoring & Predictive Maint.

- Vibration Sensors – Sushi Sensor XS770A
- Data Logging & AI Anomaly Detection – GA10

■ Coagulant Monitoring

- pH/ORP Analyzers & Sensors ●

■ Effluent Water Monitoring

- pH/ORP Analyzers & Sensors ●
- Conductivity Analyzers & Sensors ●
- Dissolved Oxygen Analyzers & Sensors ●
- Turbidity Analyzer - TB820D / FLXA402T
- Magnetic Flowmeters

SLUDGE TREATMENT

■ Flocculant & Dewatering Monitoring

- pH/ORP Analyzers & Sensors ●

■ Anaerobic Digester Tank Heating Control

- Pressure Transmitters
- Temperature Transmitters
- Dissolved Oxygen Analyzers & Sensors ●
- pH/ORP Analyzers & Sensors ●

■ Sludge Feed, Storage, & Removal Control

- Level Transmitters
- Pressure Transmitters
- Magnetic Flowmeters

■ Dewatered Cake Monitoring

- Magnetic Flowmeters
- Level Transmitters

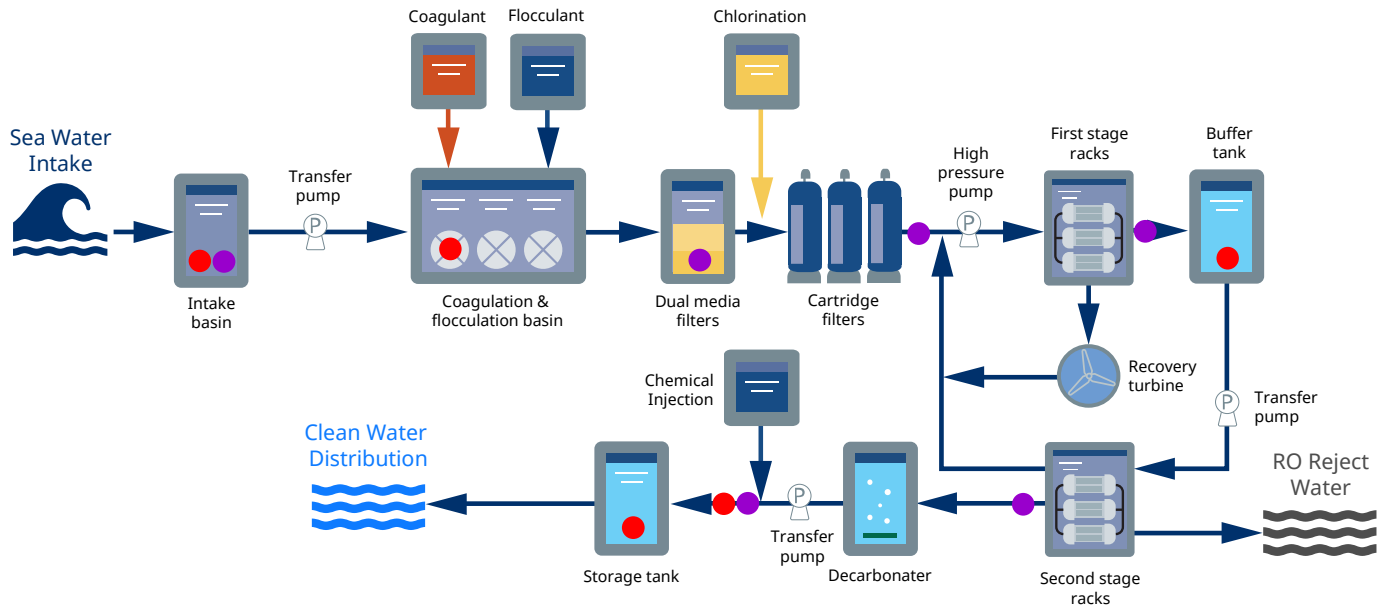
GAS/ENERGY RECLAMATION

■ Biogas Measurement & Storage

- Process Gas Chromatograph – GC8000
- Pressure Transmitters
- Vortex Flowmeter

Desalination

SEA WATER REVERSE OSMOSIS (SWRO) DESALINATION



SEA WATER REVERSE OSMOSIS

■ Intake Basin

- pH/ORP Analyzers & Sensors ●
- Conductivity Analyzers & Sensors ●
- Temperature Transmitters
- Magnetic Flowmeters
- Pressure Transmitters

■ Coagulation/Flocculation Basin

- pH/ORP Analyzers & Sensors ●
- Temperature Transmitters
- Magnetic Flowmeters
- Turbidity Analyzer - TB820D / FLXA402T

■ Dual Media Filters

- Conductivity Analyzers & Sensors ●
- Turbidity Analyzer - TB820D / FLXA402T
- Pressure Transmitters

■ Chlorination Injection

- Turbidity Analyzer - TB820D / FLXA402T
- Pressure Transmitters
- Free Available Chlorine Analyzer - FC800D / FLXA402T
- Magnetic Flowmeters

■ Cartridge Filters

- Conductivity Analyzers & Sensors ●
- Turbidity Analyzer - TB820D / FLXA402T
- Pressure Transmitters
- Magnetic Flowmeters
- Free Available Chlorine Analyzer - FC800D / FLXA402T

■ High Pressure Pump

- Pressure Transmitters
- Vibration Sensors – Sushi Sensor XS770A
- Magnetic Flowmeters

■ First & Second Stage Racks (Membrane Filter)

- Turbidity Analyzer - TB820D / FLXA402T
- Pressure Transmitters
- Magnetic Flowmeters
- Conductivity Analyzers & Sensors ●
- Free Available Chlorine Analyzer - FC800D / FLXA402T

■ Recovery Turbine

- Vibration Sensors – Sushi Sensor XS770A
- Magnetic Flowmeters

■ Buffer and Storage Tanks

- Level Transmitters
- pH/ORP Analyzers & Sensors ●
- Conductivity Analyzers & Sensors ●
- Free Available Chlorine Analyzer - FC800D / FLXA402T
- Temperature Transmitters

■ Chemical Dosing

- pH/ORP Analyzers & Sensors ●
- Conductivity Analyzers & Sensors ●
- Coriolis Flowmeters
- Free Available Chlorine Analyzer - FC800D / FLXA402T

■ Pump Monitoring & Predictive Maintenance

- Vibration Sensors – Sushi Sensor XS770A
- Data Logging & AI Anomaly Detection – GA10

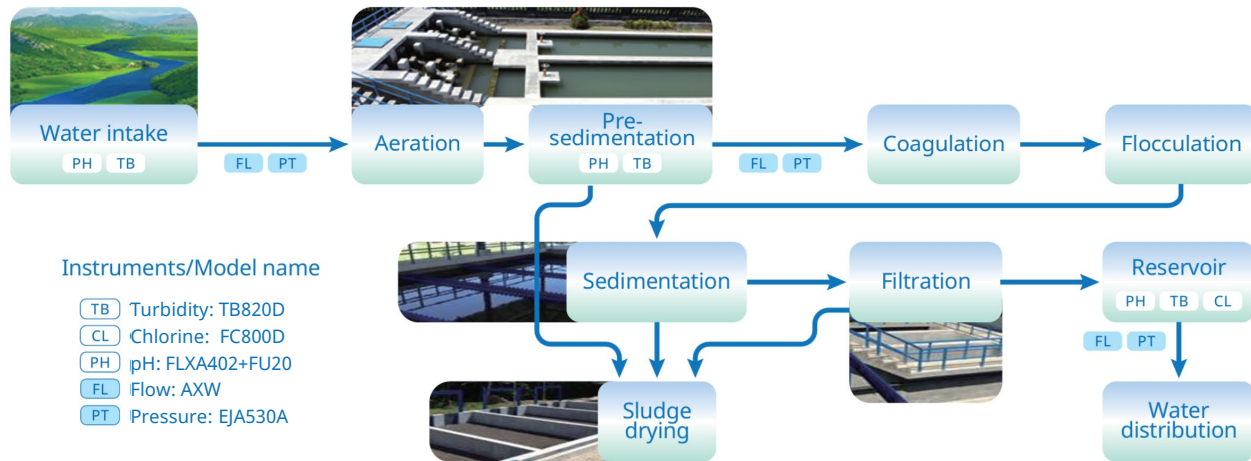
Success Story

QUICK SCALING WATER SOLUTIONS WITH YOKOGAWA'S SCADA

A new municipal water treatment plant was designed to produce 300 L/s (25,920 m³/day) of clean water. Soon after the plant started operation its production capacity was steadily increased.

The customer selected Yokogawa's process automation system as a one-stop solution which includes the SCADA (Supervisory Control and Data Acquisition) system, STARDOM™ network-based control system, and various field instruments. To meet urgent water demands, **Yokogawa was asked to deliver a solution within just three months.** This included the entire project from product supply to engineering, installation, and commissioning.

The client was familiar with conventional panel operation in their existing water treatment facilities. However, for the new plant, they decided to employ the latest reliable control systems to increase the availability and quality of operation, facilitate maintenance, and future expansion. Learning the new technologies was a major challenge, but the plant has been supplying safe and clean water to the southwest part of the municipality.



Process flow diagram

CONTROL HARDWARE & SOFTWARE

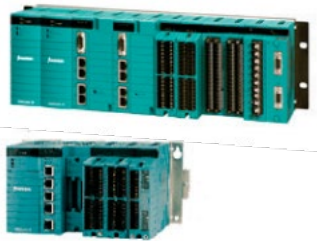


SCADA SYSTEMS

FAST/TOOLS, CI Server

Collaborative Information (CI) Server enables digital transformation across multiple facilities by unifying data with disparate formats and protocols into valuable, actionable information.

- High performance, high capacity, and broad scalability
- Open architecture and platform independence – on-premise or in the Cloud
- Simplified deployment and version management to minimize TCO
- Advanced HMI and mobile device support



HYBRID PLC/RTU

STARDOM

STARDOM is a high-performance, autonomous controller that is compatible with a wide range of SCADA systems.

- For applications that demand high availability, redundant CPUs and networks are options.
- IEC 61131-3 programmable
- Provides integral alarm management, thin-client HMI, historian, and special applications such as gas flow computing

Field Instruments



L

MAGNETIC FLOWMETERS

AXW / AXG

- Exclusive dual frequency excitation method ensures quicker response, reduced noise, and greater stability in high-concentration slurries
- Advanced diagnostics with built-in health check verification, detection of flow noise, electrode coating, and conductivity changes
- Micro SD for duplication, logging, or maintenance
- Flat spec accuracy up to 0.15% and measurement of fluids with conductivity as low as 1 uS/cm
- NSF-61 available on select models, 3A approved, Ethernet/IP ready



L G

CORIOLIS MASS AND DENSITY FLOWMETERS

ROTA: . @@TI

- A versatile, multi-sensing flowmeter that measures most flowing fluids
- Vibration-resistant due to counterbalanced dual measurement system
- Robust sensor design with low-pressure loss
- High accuracy measurement, Mass flow: 0.1%, Density: 0.005 g/cm³
- Wide temperature range (-196 °C to 350 °C)
- In-line concentration measurement, batching and viscosity function
- NTEP and 3A approvals



L G S

VORTEX FLOWMETERS

VY Series

- Up to 16-inch models with Reduces Bore types up to 2 sizes down
- Supports flexible piping design and installations
- Unique noise reduction and Spectral Signal Processing (SSP) to provide an accurate and stable measurement
- Robust shedder bar construction makes measurement at high temperatures (max. 450 °C) and high pressure possible
- Vortex waveform monitoring without an oscilloscope



L G

VARIABLE AREA FLOWMETERS (ROTAMETER)

RAMC / RAKD / RAGN

- Direct measurement and indication
- Easy installation with low maintenance
- Various process connections and wetted materials
- Available in either glass or metal
- Countless options such as 4-20 mA output, adjustable limit switches, pulse output, etc



L

MAGNETIC FLOWMETERS

CA Series

- CA Series can measure fluids that are difficult to measure with other magnetic flowmeters by taking advantage of the unique feature of having capacitive electrodes that do not come into contact with liquid. For example, high-concentration slurry fluids, insulator-adhesive fluids, and ultra-low-conductivity fluids
- If you use the verification function, you can diagnose the equipment and easily check the status of the equipment



L G S

PRESSURE, DIFFERENTIAL & LEVEL TRANSMITTERS

EJA110E / EJA510E / EJA530E

- A best-selling pressure transmitter series featuring a silicon resonant sensor
- Fast response time of 90ms for various applications
- Combined with an orifice, measures liquid, gas, and steam flow rates
- Unique features include: Multi-sensing (Differential pressure and Static pressure)
- Output signal characterizer.
- Multi-functional indicator with local parameter setting function (optional)
- Alarm output for measured pressure and static pressure (optional)
- Available for direct mounting without a three-valve manifold
- Outstanding long-term stability reduces maintenance costs
- 1 to 5 V low power output type available
- SIL2 certified



L

DIAPHRAGM SEAL SYSTEM DIRECT MOUNT

EJAC80E

- Flange-mounting, compact differential pressure transmitter
- Direct mounting to a tank
- Small flange size model available



L

DIAPHRAGM SEAL SYSTEM REMOTE MOUNT

EJAC80E

- Ideal for measuring the levels and densities of corrosive and high-temperature fluids
- Small flange size model available

TEMPERATURE TRANSMITTERS

YTA

Field mount type

- Built to last: Dual-compartment housing realizes high resistance capability to harsh environments.
- Safety first: SIL2 certified right out of the box - At Yokogawa safety is not an option.
- Excellent long-term stability: Industry leading 5-year stability guarantee



Head mount type

- A head mount type conforms to the standard DIN form B head mounting



Panel mount type

- A panel mount type conforms to the standard DIN rail mounting and supports HART communication protocol



MULTIVARIABLE TRANSMITTER

EJA910A

- Fully compensated mass flow: all flow factors can be automatically and dynamically calculated to an optimal value
- 1.0% mass flow rate accuracy over 1:10 flow range
- Simultaneous dual output of 4 to 20 mA and pulse signals for total flow, flow rate, or alarm status



L G S

Note: Symbols indicate process fluid types - Liquid **L**, Gas **G**, Steam **S**

Field Instruments

WIRELESS SENSORS SUSHI SENSOR



XS770A / XS530 / XS550 / XS110A

- Industrial IoT sensors for vibration, pressure, or temperature with long-range capability via LoRaWAN
- Automated plant equipment health monitoring to replace manual operator rounds and digitize data
- Easy plug-and-play installation with intuitive set-up from Smartphone application
- Artificial Intelligence and data monitoring on-premise and/or in the cloud
- FM approval for hazardous locations

DATA LOGGING & AI ANOMALY DETECTION GA10 / SUSHI SENSOR



- PC-based, monitors and records data from a variety of instrument networks
- AI anomaly detection and notification
- Build an easy-to-use monitoring screens
- Cost-savings through demand monitoring
- Output data to Excel, PDF, FTP, printer or other systems
- Access privileges can be assigned to each user
- Support for visualizing power and flow
- Quickly check errors with the alarm monitor
- Maximum of 100 connected devices
- High speed acquisition 100ms or faster
- Maximum number of data tags: 2,000 tags

PAPERLESS RECORDERS

GX10 / GX20 / GP10 / GP20



- Modular construction, scalable from 30 to 100 input channels on the main unit and expandable to 450 input channels
- Built-in Artificial Intelligence with "Future Pen" predictive waveforms and "Future Alarm" to predict trouble events
- Data integrity complying to FDA 21 CFR Part 11
- Easy integration to PLCs and DCS via EtherNet/IP
- Intuitive touch screen to visualize and search for data, write freehand messages, and more
- Enable TC, DCV, RTD, DI, and DO measurements with modules
- Fast selectable scan intervals from 1 ms to 5 sec
- Secure and reliable data storage to both internal (500MB standard and 1.2GB large) and external (up to 32GB) storage media

PROCESS LIQUID ANALYZERS & SMARTDAC+ DATA LOGGERS SENSTATION



- Senstation combines the unique capabilities of Yokogawa's leading products such as the SMART data logger, SMARTDAC+, and the SMART digital SENCOM sensors in a new solution that improves factory efficiency and profitability.
- The SMARTDAC+'s customized display with touchscreen and swipe will allow for a detailed real-time overview of all connected sensors
 - Remotely access all data from PC, laptop, tablet or a phone
 - Simple database management system for tracking up to 100 different serial numbers
 - Simplify replacement with "pre-calibrated" sensors
 - Monitor sensor aging in real-time with the sensor wellness feature
 - CE compliant; IECEx, ATEX, FM, CSA, TIIS compliant

Network Solutions



PROGRAMMABLE LOGIC CONTROLLER (PLC)

FA-M3

Yokogawa's FA-M3 next-generation PLC products feature ultra-high speed, stable control and high-performance networking for real time, deterministic automation and monitoring. FA/M3 is scalable up to 8192 I/O points.



INDUSTRIAL AI PLATFORM

E-RT3

The e-RT3 Plus industrial AI Edge platform is ideal for IoT and AI adoption in manufacturing. With Cloud Service accreditation from Microsoft and Amazon Web Services, the E-RT3 Plus is leading the future of manufacturing from automation to autonomous operations.



MODULAR DATA ACQUISITION SYSTEM

GM10

- Scalability: Up to 420 channels per system / plug and lock modules
- Ease of use: Web-based configuration / live web-based data viewing
- Mobile connectivity: Bluetooth / mobile application
- Open network: Modbus, EtherNet/IP, SLMP, and OPC-UA server
- Reliability: High accuracy measurement, ultimate data security complying to FDA 21 CFR Part 11
- Noise tolerance: Electromagnetic relay module
- PID, program control, and high-speed (1ms) measurement options



CONTROLLERS & INDICATORS

UTAdvanced / TC10 / YS1000

- Advanced PID control, ladder sequence control and fuzzy logic
- Function block programming
- Bright and easy to read color LCD displays with scrolling text
- Multiple communications protocols, Ethernet, Modbus, PROFIBUS, CC-Link, DeviceNet
- 3-year warranty and NEMA 4 face

Liquid & Gas Analyzers



FREE AVAILABLE CHLORINE ANALYZER

FC800D / FLXA402T

- EPA Method 334.0 (Jan. 2024)
- Non-reagent type
- Polarographic method using rotating gold electrode
- Ideal for measurement of free available chlorine in water supply and distribution systems
- 0-1 mg/L to 0-3 mg/L, 0-5 mg/L and 0-10 mg/L models are available.
- 2 or 3 automatic/remote range switching function



RIGHT ANGLE SCATTERED LIGHT TURBIDITY ANALYZER

TB820D/ FLXA402T

- EPA Compliant with Yokogawa Method 820 for Drinking Water Applications (Jan. 2024)
- User configurable measuring range from 0-0.2 to 0-5 NTU (Red light LED, 660 nm) and from 0-0.02 to 0-700 FNU/NTU (Infrared light LED, 860 nm).
- Highly reliable measurement with excellent linearity and repeatability
- In-line connection available
- LED light source and easy-to-clean removable measurement cell
- Optional: PG400 pulse generator self-cleaning unit
- Optional: Pressurized head tank for <2 NTU applications



PROCESS GAS CHROMATOGRAPH

GC8000

- Fast analysis
- Parallel GC by GC Module concept
- Large 12.1-inch color LCD touchscreen
- 6 languages
- Built-in wireless LAN port (optional, GC8000 Type6)
- AI-based software for easy & predictive maintenance (optional)

Advanced Laboratory Instruments



FLUID IMAGING TECHNOLOGIES

FLOWCAM

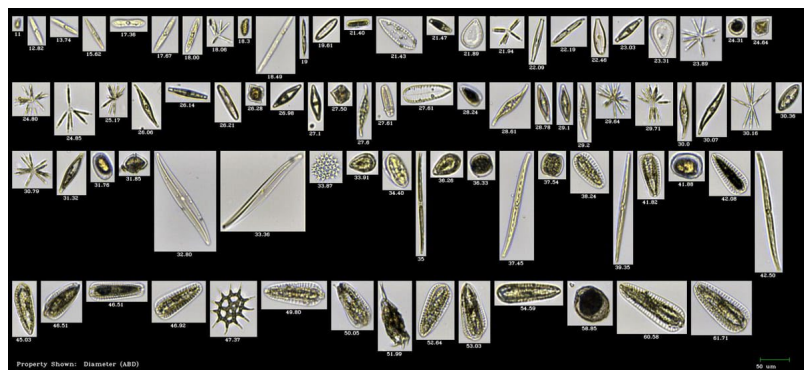
FlowCam is a flow imaging microscope that combines the benefits of digital imaging, flow cytometry, and microscopy into a single solution for life science, materials research, and industrial applications. Beyond traditional particle sizing and counting, image-based analysis allows for the comprehensive characterization of subvisible API aggregates and contaminants in biopharmaceuticals, mammalian cells, microplankton, emulsions, and advanced materials.

FlowCam products include:

- FlowCam 8000 Series, our most versatile instrument and enumeration
- FlowCam LO, flow imaging microscopy and light obscuration in a single instrument
- FlowCam Nano, submicron imaging for particles 300 nm to 2 μm
- FlowCam 5000, an affordable instrument optimized for your application
- FlowCam Macro, analysis of visible particles from 300 μm to 5 mm
- ALH for FlowCam, automated liquid handling for unsupervised analysis
- VisualSpreadsheet, powerful analytical software with an optional AI module

Yokogawa Fluid Imaging Technologies' mission is to bring clarity and focus to the study of subvisible particles in the life sciences, including monitoring Earth's water bodies and drinking water supply for hazardous algae, helping to make vaccines and injectable medicines safer, and improving product quality in a variety of applications.

For more information, visit: FlowCam.com



A FlowCam collage of plankton species captured in the Anacosta River, Washington, D.C.

Liquid Controllers & Sensors

pH/ORP ANALYZERS



FLXA402 (4-Wire) Converter

- Measures pH, ORP, rH, & temperature
- Color touchscreen, 11 languages
- Up to five sensors, connection of digital sensor (SA11) smart adapter
- Multi-input and multi-parameter analyzer
- Easy maintenance using SD card, Ethernet, RS485, and Bluetooth
- HART®, Modus, Ethernet, 4-20mA



FLXA202 (2-Wire)

- Touchscreen, 12 languages
- Two sensors can be connected
- Hazardous area classification



pH/ORP SENSORS FOR PROCESS USE

- Select the appropriate sensor for your application



PERSONAL pH/ORP METER

PH71/PH72

- Intelligent, portable pH/ORP meter with waterproof (IP67) construction
- Various convenient functions: 300-point data memory, alarm clock, temperature, etc



CONDUCTIVITY ANALYZERS



FLXA402 (4-Wire) Converter

- Measures conductivity, resistivity & temperature
- Color touchscreen, 11 languages
- Up to five sensors, connection of digital sensor (SA11) smart adapter
- Multi-input and multi-parameter analyzer
- Easy maintenance using SD card, Ethernet, RS485, and Bluetooth
- HART®, Modus, Ethernet, 4-20mA



FLXA202 (2-Wire)

- Touchscreen, 12 languages
- Two sensors can be connected
- Hazardous area classification



CONDUCTIVITY SENSORS

- Select the appropriate sensor for your application

INDUCTIVE CONDUCTIVITY SENSORS

ISC40G/S

- Measuring range: 100 μ S/cm 1999 mS/cm with a single sensor
- Material: PEEK or Fluororesin (PFA)



PERSONAL CONDUCTIVITY METER

SC72

- Intelligent, portable conductivity meter with waterproof (IP67) construction
- Various convenient functions: 300-point data memory, alarm clock, temperature, etc



DISSOLVED OXYGEN ANALYZERS



FLXA402 (4-Wire) Converter

- Measures DO concentration, % saturation & temperature
- Color touchscreen, 11 languages
- Up to five sensors, connection of digital sensor (SA11) smart adapter
- Multi-input and multi-parameter analyzer
- Easy maintenance using SD card, Ethernet, RS485, and Bluetooth
- HART®, Modus, Ethernet, 4-20mA



FLXA202 (2-Wire)

- Touchscreen, 12 languages
- Two sensors can be connected
- Hazardous area classification



DISSOLVED OXYGEN SENSORS

DO71 / DO72 / DO30G

- Measurement object: Measurement of dissolved oxygen in aeration tanks at sewage treatment plants.
- Measuring range:
 - 0 to 22.5 mg/L (ppm) (DO71)
 - 0 to 22.5 mg/L (ppm) (DO72-W)
 - 0 to 2 mg/L (ppm) (DO72-T)
 - 0 to 20 mg/L (ppm) (DO30G)
- Type of sensor:
 - Optical DO sensor (DO71, DO72), Galvanic cell DO sensor (DO30G)

INLINE CLEANING MECHANISM

- This cleaning apparatus can be used with the All-in-One style sensors (FU20/FU24/PH20) or with individual 12mm sensors (SC21/SC29)
- Restricts sediment formation on the electrodes and increases the period between calibrations



SENCOM SMART ADAPTER

SA11

- For analog sensors with integrated ID-chip
- Online sensor diagnostics, sensor wellness and predictive maintenance
- Connectable sensor: pH/ORP sensors, Conductivity sensors
- Auto recognition of sensor with plug-and-play capability
- On-site calibration using FLXA converter, FieldMate or SENCOM configuration tool
- Standalone operation without connection to converter optimize maintenance
- Integrated logbook



RETRACTABLE ASSEMBLY

PR10

- Can remove a sensor without shutting down the process
- For pH/ORP, Dissolved Oxygen, Conductivity and Inductive Conductivity sensors



RETRACTABLE ASSEMBLY

PH87/PH97

- Suitable for "Hot-Tap" service, allowing for removal from a pressurized process line or vessel without interrupting the flow or draining the tank
- Constructed of chemically resistant titanium with blowout protection
- Integral junction box for simple installation
- Adjustable insertion length
- For pH/ORP sensors



PNEUMATIC RETRACTABLE FITTING

EXAtrac RF20

- Suitable for harsh applications where frequent cleaning is of vital importance for a good pH measurement
- Available in plastic, stainless steel and Alloy C22
- Can remove a sensor without shutting down the process
- For pH/ORP sensors



