

SYSTEMS & SERVICES PORTFOLIO

INNOVATIVE.
TRUSTED.
SOLUTIONS.



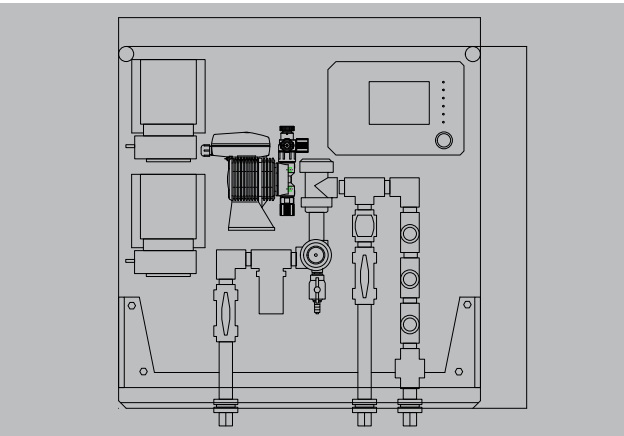
PROMAG ENVIRO



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With over 20 years serving the water industry, our team of professional and knowledgeable staff are capable of handling requests ranging from the industry standard to unique custom designs. Our tested process ensures you are completely satisfied every step of the way, from design approval to onsite training or system management.

Our clients trust us for solutions ranging from small modular dosing systems mounted on poly paneling or in enclosures, to large construction site treatment systems in customized shipping containers. We are acutely aware of how important quality plays in the water industry: quality of equipment, quality of fabrication and meeting water quality standards—quality is what we build our business reputation on.



Our Solution

At Promag Enviro we don't sell equipment, we provide a solution. Over 20 years serving the industry puts us in a position to quickly and continually adapt to the increasing needs of clients. Our clients enjoy a clear advantage in the industry by knowing its direction and staying ahead of the curve. Promag's solution of marrying a crafted system portfolio with a unique online platform service has produced a clear value proposition that propels growth.

Our Mission

At Promag Enviro, we provide start to finish solutions that exceed expectations at every step of the process. Providing a quality system portfolio and unique service options for the water and waste water industry in North America, while continually promoting water treatment practices, which are both environmentally friendly and sustainable.

“As one of Canada's fastest growing companies we bring assets and time back to our clients which provides them compounding growth opportunities.



SOLUTIONS

Our two-fold value proposition is clear: First, a malfunctioning system or the improper dosing of product is lost revenue or added expense. Second, unnecessary drive time for system adjustment or to obtain status/reports is an added expense and is a loss of new sales opportunity. Promag's PX Systems provide optimized solutions with remote capabilities to enhance efficiency and eliminate unnecessary travel time.



System Fabrication

Promag has slowly and meticulously honed each industry offering to now provide a niche portfolio of tailored systems. With a wide breadth of fabricated options available and our attention given to each detail, you get plug-n-play installation.



Remote Telemetry

Our clients range from one location to hundreds of locations; scaling is made easy. We program and set up everything prior to shipping, with LTE, LAN, GPS, or satellite options and with a range of remote telemetry service levels available, telemetry is easy.



Online Platform

System management, reporting and control is fast becoming the industry standard. With a range of options, such as viewing data on a multi input graph or controlling dosing from your phone, an online platform provides immediate value.

Know your core competencies - focus your resources for growth

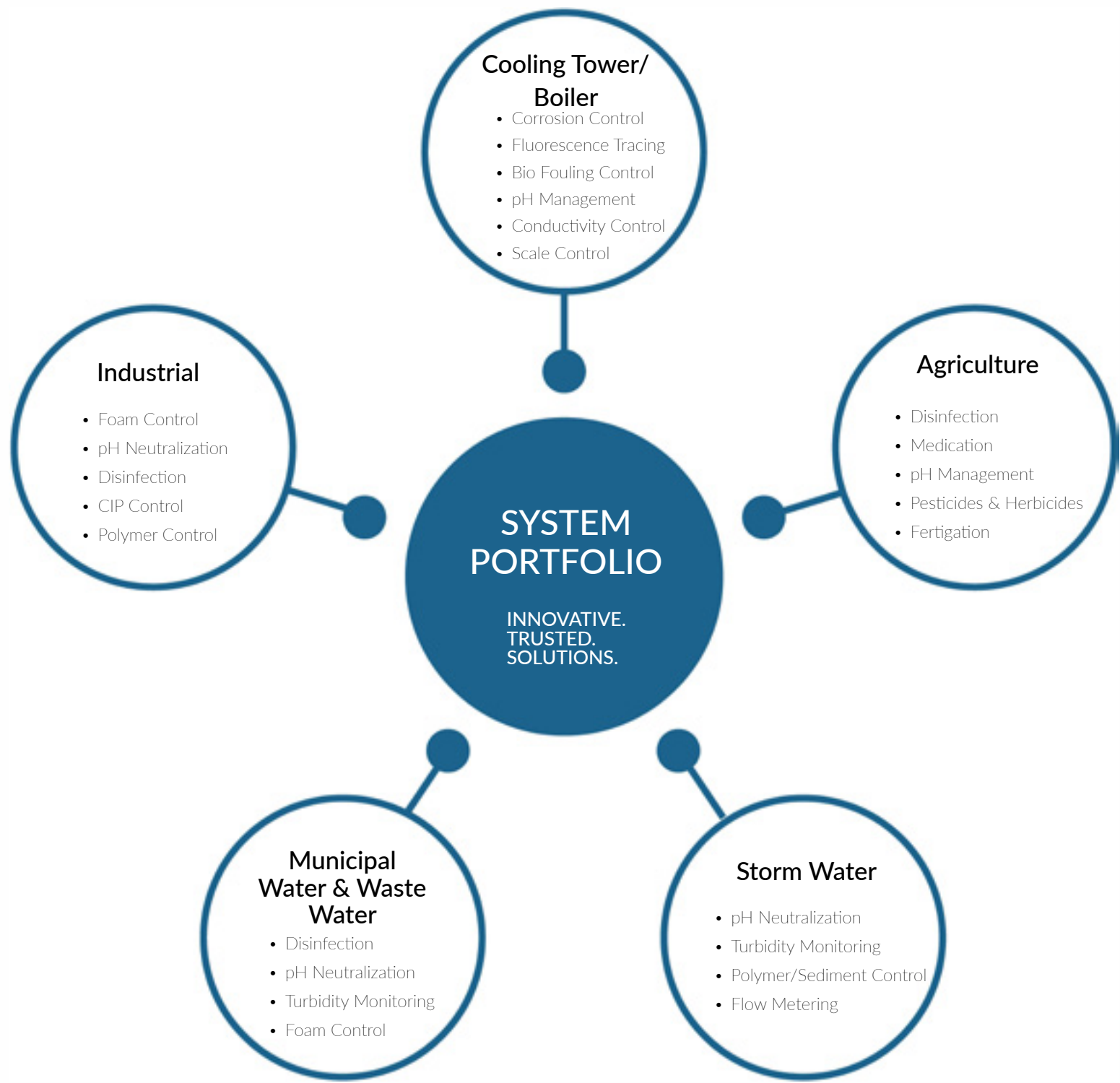
Promag Enviro has focused its core competency to fabricating a specific portfolio of systems that marry remote telemetry via LTE, LAN, GPS or satellite modem and allows the client the option to view or control system parameters with

an online platform. Focusing on the common problems clients encounter, allows us to eliminate lost time and cost by leveraging our many years of testing compatibility, optimizing system designs and fabrication techniques.



COOLING TOWER/ BOILER SYSTEMS

Problem:
Scale, corrosion and bio-fouling are key issues and large liabilities can be associated with poorly managed biocides.



Solution:
Successful treatment of towers and boilers requires simultaneous management of corrosion, scale and bio-fouling (towers). The industry has moved from flow proportioned injection to bleed-based to real-time analysis of inhibitor concentrations, and our systems are so adaptive, we can add the necessary modules as the building's needs grow to accommodate a smarter world. Additionally, legionella is an ever-pressing concern, and we can tackle that one by adding ORP sensing technology along with clever algorithms and pH measurements to ensure maximum biocidal efficacy.



Industry Outlook

System Features

Platform Benefits

The movement towards greener consumables means more costly chemistry, and this means tighter control of the dosing generates a quick ROI. In addition, legionella proves to be more resilient than once thought, and smarter biocide injection is crucial. All this is being made much simpler with remote monitoring and control and a solid Promag PX System.

- Flow totalizing
- Data logging
- Conductivity based bleed
- Optional redundant sensor
- Optional pH/ORP/fluorescence
- Compact flow/bleed manifolds
- Easy installation/commissioning
- Pre-programming
- Chemical level monitoring

Travel time to sites can be expensive, and additional trips to correct settings can be frustrating. It can also be worse when arriving to find that your chemical has been drained because of poor sampling, or the system has bled continuously for days because of a stuck valve. With remote monitoring and control, an alarm can notify you and can be fixed from your office before there's even a problem.

AGRICULTURE SYSTEMS

Problem:
Crop yield and animal health means the difference between plenty and scarcity, and sometimes water systems may work on paper but miss the mark on usability. Engineered designs may get dosages right on paper but miss operational complexity.

Solution:
Promag's PX Systems are hydraulically tested to ensure performance and a well-implemented system that produces the promised return on investment. The critical step of going from theory to usability has been investigated, tested and refined to the point of needing no on-site wiring or programming—a true plug-n-play system. And for those times when something goes wrong, our staff is available on hand for technical support.



Industry Outlook

Grower yields are increasing along with the competition, and animal health concerns are increasing, while automation becomes more and more crucial and complexity multiplies. Water plays such a key role for all facets of agriculture, and Promag's PX Systems make sure your water concerns are alleviated.



System Features

- Flow metering
- Data logging
- pH/ORP control
- Disinfection control
- Medicators
- Herbicide/pesticide injection
- Chemical level monitoring
- Easy installation/commissioning
- Pre-programming & pre-wiring



Platform Benefits

The online platform will help keep sickness away as you get a handle on the true nature of your water's health and notifications of any lapses in performance. Your concern is our concern, and getting you the best information on your water is step one to an improved system.

STORMWATER SYSTEMS

Problem:
Construction stormwater run-off can threaten the ecology of major water systems, and large concrete pours and sudden rain events will grab the attention of local bylaw authorities.

Solution:
Having a fool-proof, adaptable system that works under extreme conditions is not only necessary to appease regulatory bodies, but it's important for the sake of our environment and for the smooth operations of the construction industry. Using reliable sensors with well-constructed manifolds is critical for ensuring accurate readings of the water and will improve overall performance of the treatment. Proportioning the chemistry is also an under-utilized principle in this industry which could bring savings to you and your clients.



Industry Outlook

Regulatory bodies have a keen interest in this industry, and in some jurisdictions will be looking soon to impose 24/7 monitoring—as the rain waits for no one. Our systems can be implemented with an eye to this future as they are field upgradeable for remote telemetry. Better yet, get ahead of the curve and implement a cost savings monitoring plan now and never worry about compliance again.



System Features

- Flow totalizing
- Data logging
- CO₂ control
- pH & turbidity monitoring
- Optional effluent pH monitoring
- Optional effluent turbidity monitoring
- Panel, job box, sea can installations
- Pre-programming available
- Chemical level monitoring



Platform Benefits

Travel time to sites may periodically be necessary, but confidence in 24/7 system operation can only be achieved through remotely accessible data and notifications. Savings are quickly found by reducing drive times, and quick responses can be made during rain events by logging on from any device to see which systems are out of range, then dialling in a few settings to compensate.

INDUSTRIAL SYSTEMS

Problem:
Industrial applications are not unique in that both regulation and ROI drive the need for a water treatment system. The problem with industrial applications is that the processes can be harsh, and the installations are often retrofitted into tight spaces with limited budgets.

Solution:
With municipalities clamping down on industry, and penalties becoming unforgiving for exceeding discharge permits, Promag Enviro enables a confidence that your water is within limits by providing notifications and the ability to implement corrective action at the first sign of a problem. We can also work with harsh water, tight spaces and even tighter budgets.



Industry Outlook

The industrial world forges ahead despite changing political climates and water regulations. We want to help industry maintain compliance with municipalities such that their core operations remain undisturbed. Promag's PX Systems will enable industries to walk through the complexities of water treatment and have an adaptable system that grows with their business.



System Features

- Flow metering
- Data logging
- Foam control
- pH/ORP control
- CIP control
- Corrosion control
- Chemical level monitoring
- Easy installation/commissioning
- Pre-programming



Platform Benefits

The online platform provides clear advantages for industrial water users as municipal requirements tighten over time. Our remote monitoring platform allows industry to be proactive rather than reactive as the core issues are recognized thanks to helpful data.



MUNICIPAL WATER & WASTE WATER SYSTEMS

Problem:
Chlorine disinfection is challenging due to its inherent pH sensitivity and off-gassing, and pH management of wastewater involves frequent sensor fouling and a logarithmic effect on chemical demand. In addition, PLCs and SCADAs can be very costly to run over their lifetime.

Solution:
Our solutions often replace or complement PLCs and SCADA systems, and we integrate user friendly interfaces that don't require specialized programmers and keeps costs in reach of small water users. Oxidizing disinfectants can be ineffective if pH is not managed at the same time, and while flow based chemical metering is simple, reliable and accurate, improved performance is achieved through ORP readings and amperometric sensing of disinfection residuals to ensure kill times of pathogens.

Pump discharge can vary from accumulated off-gassing and can air-lock the pump, so flow verification should be implemented to ensure notification is sent if there is loss of prime, while running algorithms to regain prime without manual oversight.

Meanwhile, at the wastewater plant, it's important to consider redundant sensor technology with differential measurements and fall backs to mitigate false readings from sensor fouling.



Industry Outlook

Communities of all sizes rely on their treatment equipment to ensure there are no water advisories, but it's evident that small community water advisories are still a regular occurrence and not enough is done about it. All communities and all people have the right to quality water and disinfection systems that eliminate the advisories, along with 24hr monitoring to ensure problems are dealt with before they arise.



System Features

- Flow metering
- Data logging
- Disinfection control
- pH/ORP Control
- Turbidity Control
- Chemical level monitoring
- Optional redundant sensors
- Easy installation/commissioning
- Pre-programming



Platform Benefits

All system inputs and outputs can be monitored and maintained remotely when tied in with our water management platform. Promag Enviro is also able to monitor the systems and improve up-time, compliance, risk management and reduce liability.

PLATFORM OVERVIEW

Whether you have one or one thousand building locations, the platform can be scaled to meet your exact needs. Each of your building systems is an asset that should be protected and monitored to provide maximum value and payback. Starting with a fully encrypted login on any internet connected device, view all systems by map or filterable listing. Select a specific system and view live data readings or download historical data logs or activity logs. Live data can be viewed via graph with multiple inputs.

Graphed inputs can be manipulated with an adjustable x-axis and y-axis date and value range. Using your cursor, exact points in time can be studied and full system analysis can be completed in minutes rather than hours. Upon analysis, the user can open a live connection to the system to adjust set points, turn on or off outputs, alter high/low alarms, re-set, or change system notifications, all remotely.

“Your brand is the single most important investment you can make in your business.

- Steve Forbes, Editor in Chief of Forbes Magazine



If you choose, the platform logo, colour and url extension can be branded to match your company, if desired your clients can be provided login access with limited or full permissions and can be linked through your company website to a fully branded platform. With flexible service levels based on data access requirements and users, ranging from little or no cost with self monitored login, to monthly service fees for fully managed and controlled package systems, we can provide the right fit to meet your unique needs.



Have all your systems in one place; view by map or filterable list.

Your Logo, Your Colours.
Customizable Platform Branding.





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