



Measuring and Control Technology from ProMinent

As versatile as our customers' requirements

ProMinent[®]



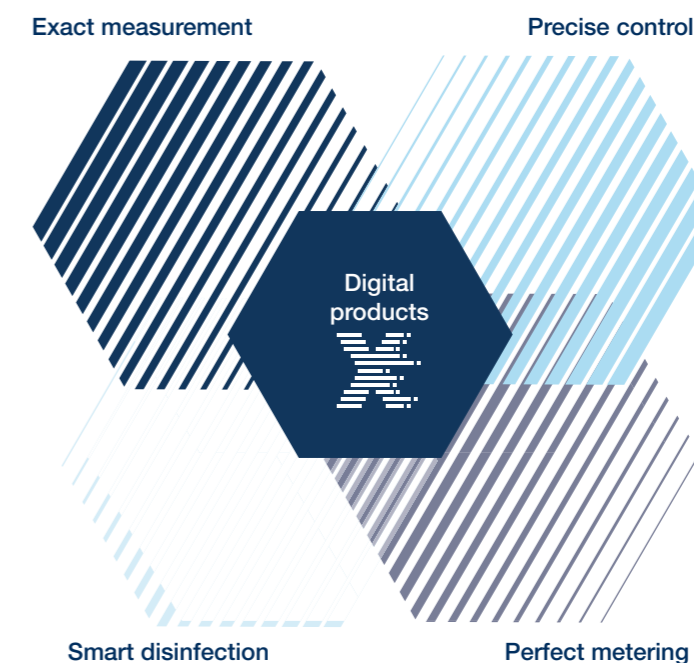
When **COMPONENTS** do more than just communication

It's easiest when you understand each other!

And that's a given with ProMinent components. They are perfectly matched to one another and ensure seamless interaction. This produces individual solutions, which surpass the application's needs.

No matter whether they are used in industrial and municipal water treatment, the pool & wellness sector, chemical sector, energy sector, food and beverage industry or in any other industry, our components are always spot on:

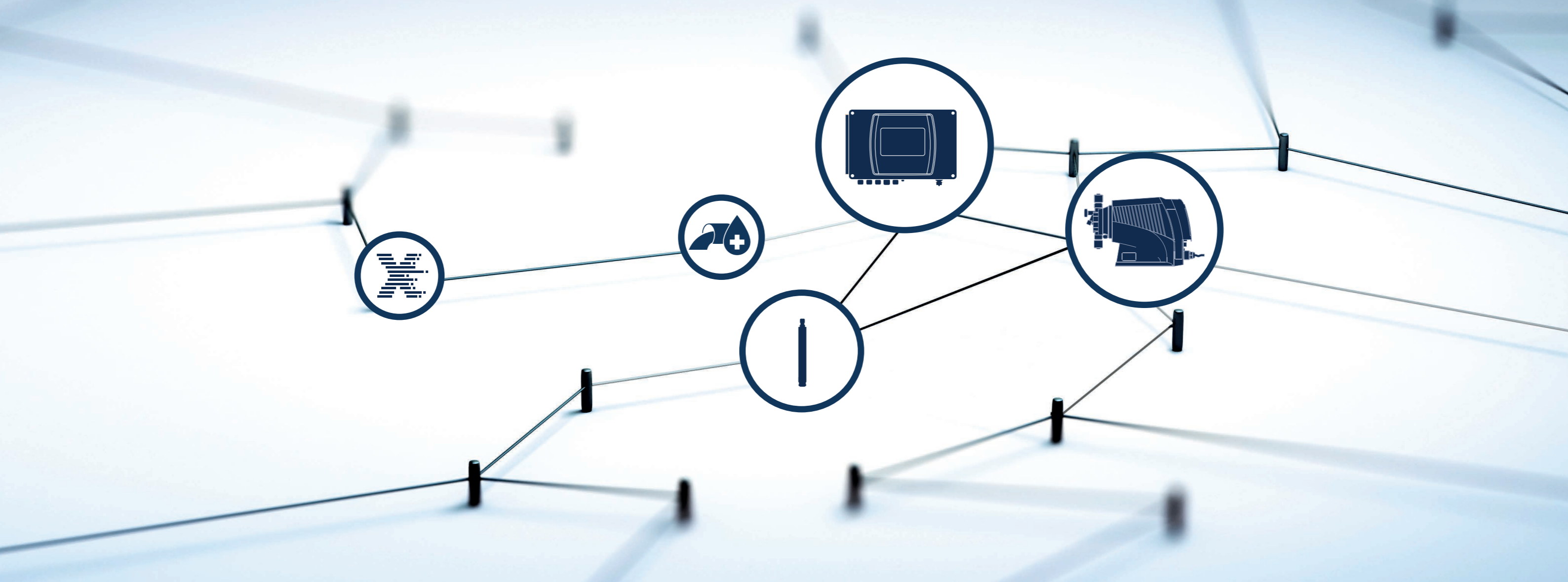
- **Sensor technology – for exact measurements**
 Correctly measuring all relevant parameters in water treatment.
- **Measuring and control technology – for precise control**
 Precisely regulating and controlling processes.
- **Metering technology – for perfect metering**
 Perfectly metering liquids.
- **Smart disinfection – for sustainable water treatment**
 Sustainably treating water with various disinfection processes.
- **Digital products**
 Providing additional digital services using DULCONNEX – our cloud-based solution for digital fluid management.



As a solution provider for fluid technology, the ProMinent Group stands for process reliability in customer-specific applications.

ProMinent provides you with the best possible safety through its use of perfectly optimised components. Metering pumps that always dose the exact necessary volume of chemicals. Sensors that deliver absolutely reliable and precisely measured values in real time. Controllers that match your customer-specific applications with technical precision. Disinfection processes that ensure sustainable water treatment and digital solutions that point the way forward.

The seamless integration of separate components enables the individual solution for your process in water treatment and water disinfection as well as the metering of liquids and solids.



An infinite level of INTERACTION

There are many who can sell individual products. However, ProMinent provides a complete solution because the manner in which individual products interact is not merely about the control circuit. ProMinent's portfolio combines all the components into a personalised solution for your process. It can't get better than this.

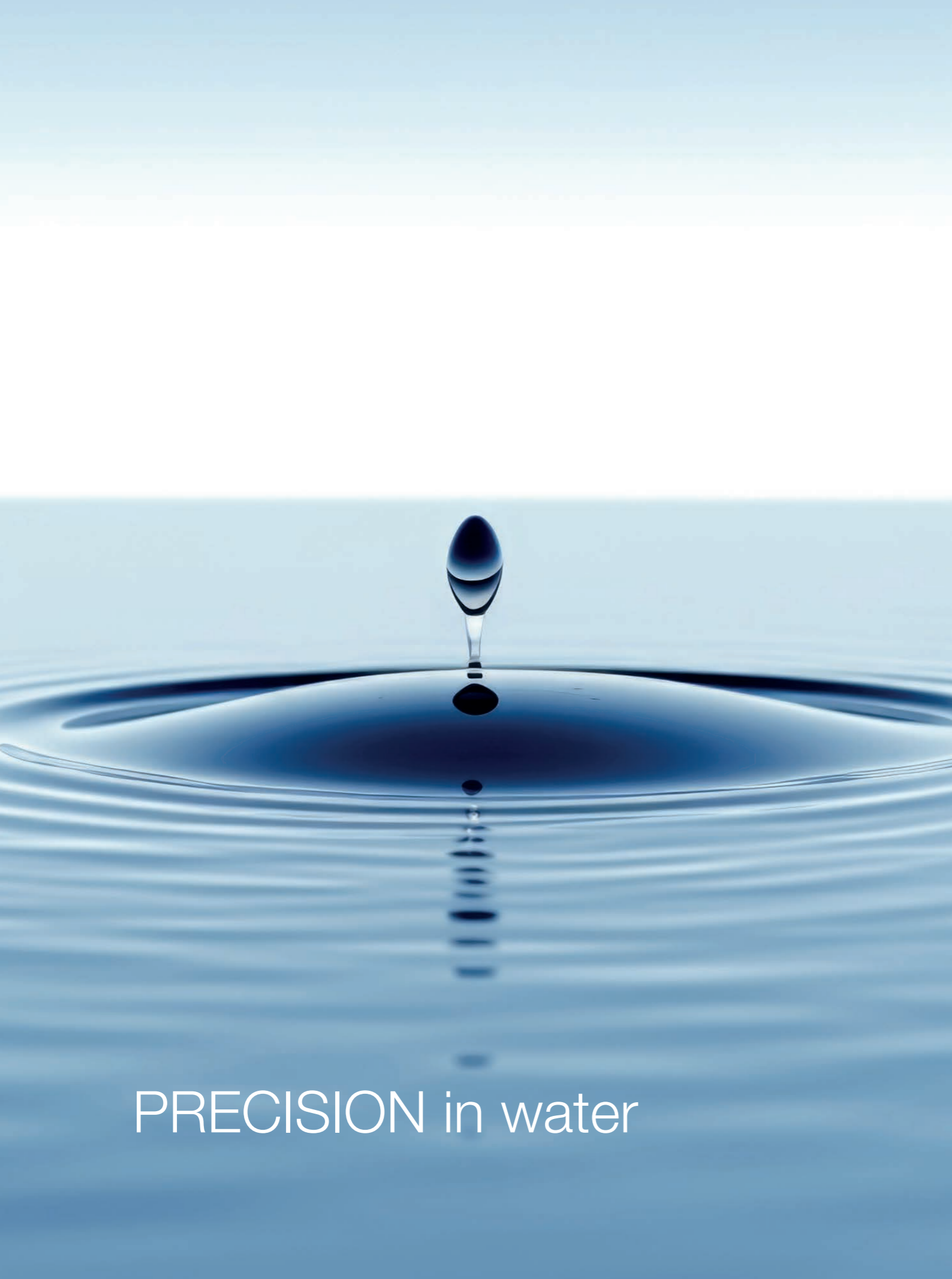
ProMinent has added the following to measuring and control technology:

- **Metering technology**
 - Low-pressure metering pumps
 - Motor-driven metering pumps
 - Peristaltic metering pumps
 - Process pumps
 - Peristaltic pumps

- **Systems for water treatment**
 - Chlorine dioxide systems
 - Electrolysis systems
 - UV systems
 - Ozone systems
 - Membrane filtration systems

- **Digital solutions for fluid management**

DULCONNEX networks all the components in a system. The digital interaction between pumps, systems, controllers and sensors improves process reliability and system efficiency.



PRECISION in water

Measuring and control technology determine the **PACE**

Measurement, control and regulation are the basic functions in the water treatment process – in both the public and industrial sector.

To make successful systems out of individual components, ProMinent has conducted over 60 years of research and development in order to perfect every single product. More than 150,000 of the highest quality sensors are produced annually in the in-house glass blowing works on the isle of Malta. The sensors cover all the key parameters of water treatment.

Glass and plastic parts, alongside electronics modules, which are fitted in electrochemical sensors and smart controllers, are produced at three European manufacturing sites. From individual components and electronic components, to the final assembly and quality checks – every single product has been produced by ProMinent with expertise and true passion.

It's no wonder that the various products blend together seamlessly.



Production sites

1. Brazil
2. China
3. Germany
4. France
5. India
6. Malta
7. Sweden
8. Spain
9. Czech Republic
10. USA
11. Netherlands

SENSORS

Sensors of the
DULCOTEST product range
Reliable around-the-clock

The sensors accurately record measured values and reliably supply these in real time over large measuring ranges. They can be flexibly connected to process interfaces via bypass, immersion or in-built fittings.

DIVERSITY

Parameter

- pH
- ORP
- Electrolytic conductivity
- Turbidity
- Dissolved oxygen
- Free chlorine
- Total available chlorine
- Combined chlorine
- Total chlorine
- Chlorine dioxide
- Chlorite
- Bromine
- Ozone
- Hydrogen peroxide
- Peracetic acid
- Fluoride
- Temperature



EXACT measurement

SUSTAINABILITY

Modular bypass armature BAMA
Sustainable water treatment

All sensors for water treatment can be found in the modular bypass armature BAMA, which is simply installed in a bypass of the main process line. It can be perfectly laid out in various variants for various applications. Be it potable water, water for pool & wellness or industrial water – the modular structure of the fitting produces maximum flexibility and simplicity, without the need for tools. Under the perfect measurement conditions, water consumption is reduced from 25 l/h to 5 l/h and what's more, the armature is made from 100 % recyclable materials. Well conceived for sustainable water treatment.



PRECISE control

CONTROLLERS



Controllers of the
DULCOMETER product range
In various performance classes

From the simple **forwarding of measurement signals** to a central controller **and calibratable devices with measured value displays**, through to specialist controllers for **complex application-specific control tasks** – ProMinent provides a complete product range for various industries.

VERSATILITY

DULCOMETER diaLog X
From small to large – extremely flexible for all system sizes

The multi-parameter controller DULCOMETER diaLog X makes sure that complex water treatment systems run as efficiently as possible. The controller is ultra-flexible and suited to many measurement parameters.



Application-specific software modules are available for the DULCOMETER diaLog X to allow the configuration to be adapted to the process as simply and accurately as possible - without the need for programming. Using freely configurable function blocks, the diaLog X can map virtually any customer application. The controller can be scaled and controls several systems simultaneously in a decentralised manner. The combination of main and satellite units improves flexibility. Up to two satellite units can be added, making the diaLog X suited to virtually all customer applications in water treatment, even large-scale projects.

INTERACTION

DULCOMETER diaLog DACb
Precise measurement of all parameters and rapid interactions

The controller DULCOMETER diaLog DACb is our compact all-rounder for water analysis. With its specially designed functionalities, e.g. processing of interference variables and switchover of control parameters, it closes the control circuit between DULCOTEST sensors and ProMinent metering pumps. The measuring and control channels of the DULCOMETER diaLog DACb can be individually configured to meet customer requirements. Everything that you need for the reliable treatment of industrial and process water, potable water as well as swimming pool water.





SYSTEMS

Measuring and control system DULCOZERO Precise determination with small measured values

The new measuring and monitoring system DULCOZERO is a smart complete system for monitoring the absence of free chlorine. For the first time ever, breakthroughs of chlorine are recorded using amperometric sensors. These are forwarded to the controller by the means of intelligent signal monitoring.

The peristaltic pump DULCOFLEX DF2a is intended for the calibration process required every three months.

The sensor, controller and pump work together intelligently in an integrated expert system to accurately identify the breakthrough of chlorine and respond automatically.



Metering pumps, process metering pumps, peristaltic and chemical transfer pumps for metering stations and systems Various performance classes

ProMinent pumps are distinguished by their robustness and consistent dosing rates. They can also be used for many different purposes.



Radar liquid level sensor DULCOLEVEL System and process reliability

The new DULCOLEVEL Inventory Management makes light work of managing chemicals. The sensor can be seamlessly integrated into your existing metering system. This is particularly easy with a tank and metering pump from ProMinent. With the mobile app, you can see the liquid level and all the data you need instantly even when working from a distance. The Bluetooth connection means you don't need any additional cables, making retrofitting in existing applications simple and inexpensive. DULCOLEVEL also improves your levels of health and safety at work. The measurements and sensor configuration are seamless, i.e., there is no contact with harmful media.



MANAGEMENT OF CHEMICALS TOO

PERFECT metering



SMART disinfection

WATER TREATMENT AND DISINFECTION



IT'S CRYSTAL
CLEAR!

WATER TREATMENT AND DISINFECTION

The majority of measurement and control circuit products are used in water treatment and water disinfection. In this line of work, it's essential that everything is done with precision. It doesn't matter in which disinfection system the components are used in, they are all compatible with one another and match perfectly - for the good of the environment and to the benefit of the operator. ProMinent products use as few chemicals as possible and still achieve outstanding cleaning quality levels. Would you like to discover exactly how this works? Through coordination and the ideal transfer of information, the ProMinent experts find the perfect solution – and can do the same for your process too.

Dive into ProMinent's system environment.

Disinfection processes for water treatment

- Chlorine dioxide systems
- Electrolysis systems
- UV systems
- Ozone systems
- Membrane filtration systems

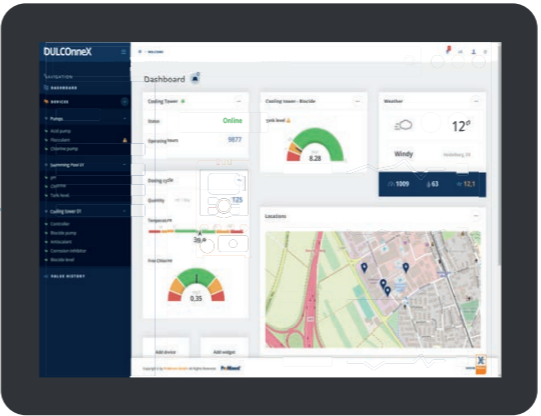




CONNECTED AT ALL TIMES

Digital networking of all system components

Using the smart and complete solution DULCONNEX, all the components in a system are networked. This allows metering pumps, disinfection systems, controllers and sensors to interact in an optimised manner – increasing process reliability and system efficiency. The new mathematics module can be used to check the plausibility of processes and identify potential for optimisation. Third-party systems can be integrated too, giving our customers the greatest possible flexibility.





PRACTICAL APPLICATION

ALWAYS ONE STEP AHEAD OF THE REST

Water supplies for the city of Palermo – safeguarded by ProMinent

In Sicily's capital city of Palermo, ProMinent's customer AMAP operates reservoirs and aqueducts dating back to the 19th century. As was the case originally, water is still today taken from these storage sources to be treated and used as potable water. Depending on the water quality, before it enters the water treatment plant, pre-chlorination is undertaken.

In line with the new European Directive 2020/2184 governing potable water, companies have to produce a risk assessment. Relevant parameters in the surface water, ground water and raw water have to be permanently monitored. The water supply companies and relevant authorities must be able to access the measurement data and monitoring results at any time.

ProMinent's digital fluid management system DULCONNEX meets the requirements of this directive. The monitoring system provides secure access to the data. In extreme circumstances, emergency chlorination can even be undertaken and the process controlled remotely with appropriate safety mechanisms.

120 water test stations have been created within the region. They are equipped with the following ProMinent products:

- 120 solenoid-driven metering pumps gamma/ X
- 100 panel-mounted measuring and control systems with DULCOMETER DACb and sensors for pH and chlorine
- 10 panel-mounted measuring and control systems with DULCOMETER DACb and sensors for pH, chlorine, conductivity
- 10 panel-mounted measuring and control systems with DULCOMETER DACb and with sensors for pH, chlorine, conductivity and turbidity
- 11 radar liquid level sensors DULCOLEVEL
- DULCONNEX IOT connectivity for all components
- 5 fixed containers for treatment systems

Discover more
practical examples and
references on
our website





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