

Complete measuring and control systems – with ProMinent

Flexible standard and individual solutions for all applications in water treatment

ProMinent®

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Panel-mounted measuring/control stations DULCOTROL®

For drinking, cooling and waste water



The panel-mounted measuring/control stations DULCOTROL® are online measuring and control units which are available in a variety of designs and optimised depending on the individual application for the three most important applications in water treatment

- Drinking water / Food & Beverage
- Cooling water
- Waste water

ProMinent supplies all components required for the measurement, control and monitoring of water matched among each other and installed on a PE panel ready for connection.

A complete measuring and control station for water treatment consists of

- Multifunctional operating module
- Controller DULCOMETER® D1C or D2C for one or two measured variables
- Sensors
- Fittings
- Piping, wiring

Flexibility

- Availability of all important chemical measuring parameters of water treatment (13 parameters)
- Sample water-specific configuration of 1-3 sensors on one panel
- Measuring unit with measuring and control functions
- Comprehensive optional accessories (pressure reducer, filter, heat exchanger, sample water pump)
- Support of the calibration and maintenance through brackets for sensors, manual devices and calibration solutions

Simple and safe configuration

- Simple and fail-safe configuration and ordering based on ten user-related criteria possible without detailed technical knowledge. The main selection criteria are the measured variable and the water to be measured
- Optimal technical equipment with components automatically matched to the application on a completely fitted panel with up to three sensors
- Quick, easy installation and commissioning thanks to plug & play sensors ready for connection



For further information, please visit:
www.prominent.com/measuring_systems

Panel-mounted measuring/control station DULCOTROL® drinking water (Food & Beverage)

For hygienic drinking water



Area of application

Treatment of drinking water, water of quality similar to drinking water as well as of rinsing water, industrial water and process water treatment

- Disinfection
- CIP (Clean In Place)
- pH value adjustment
- Monitoring

Advantages

- All components are matched and installed ready for connection
- Configuration of 1-3 sensors depending on the measuring, control or monitoring task
- Configuration via a simple ordering system
- User-related selection criteria automatically guarantee the right configuration of the measuring/control station

Main selection criteria for the equipment of the panel-mounted measuring and control station DULCOTROL® Drinking water (Food & Beverage):

Water to be measured

- Drinking water
- Product water
- Rinsing water
- Industrial water
- Process water

Available measured variables

- Free chlorine
- Total chlorine
- pH
- ORP
- Chlorine dioxide
- Chlorite
- Hydrogen peroxide
- Peracetic acid
- Conductivity
- Ozone
- Fluoride
- Dissolved oxygen
- Temperature



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Panel-mounted measuring/control stations DULCOTROL® cooling water

For optimally conditioned cooling water



Area of application

Treatment of cooling water:

- Conditioning through pH value adjustment in a closed cooling water circuit
- Metering of corrosion inhibitors
- Disinfection with non-oxidative biocides and oxidative disinfectants
- Automatic desalination in an open cooling circuit (cooling tower) on the basis of a conductivity measurement

Advantages

- All components are matched and installed ready for connection
- Configuration of 1-3 sensors depending on the measuring, control or monitoring task
- Configuration via a simple ordering system
- User-related selection criteria automatically guarantee the right configuration of the measuring/control station

Main selection criteria for the equipment of the panel-mounted measuring and control station DULCOTROL® cooling water:

Water to be measured

- Cooling water

Available measured variables

- Free chlorine
- Total chlorine
- Bromine organic
- Free bromine
- ORP
- Conductivity
- pH
- Chlorine dioxide (with temperature as correction variable)
- Ozone
- Hydrogen peroxide



For further information, please visit:
www.prominent.com/measuring_systems

Panel-mounted measuring/control stations DULCOTROL® waste water

For optimally clarified cooling water



Area of application

Treatment of waste water:

- pH neutralisation and pH value adjustment
- Disinfection of clarified water
- Elimination of reductives and oxidants for decontamination
- Desalination of process water
- Monitoring of rinsing water
- Control of the dissolved oxygen in the biologic clarification stage
- Monitoring

Advantages

- All components are matched and installed ready for connection
- Configuration of 1-3 sensors depending on the measuring, control or monitoring task
- Configuration via a simple ordering system
- User-related selection criteria automatically guarantee the right configuration of the measuring/control station

Main selection criteria for the equipment of the panel-mounted measuring and control station DULCOTROL® waste water:

Water to be measured

- Clear water
- Water with solid fraction, turbid
- Water with solid fraction, muddy
- Water with fluoride and $\text{pH} > 7$

Available measured variables

- Total chlorine
- pH
- ORP
- Conductivity
- Chlorine dioxide
- Ozone
- Hydrogen peroxide
- Fluoride
- Temperature



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For optimal water treatment according to the customer's requirements



Apart from the application-specific systems which are matched to drinking, cooling and waste water applications, the measuring and control stations can also be compiled individually.

Panel-mounted measuring stations DULCOTROL® Special by ProMinent are fully operable systems designed according to the customer's requirements. All components required for measuring, controlling and monitoring the water treatments are installed on a PE panel ready for connection and matched.

Standard material

- PVC
- PP
- PVDF
- Stainless steel

Control according to requirement

- Terminal box
- Relay control
- Mini PLCs
- ProMinent® controls
- PLC with operating panel and PROFIBUS® connection

Advantages

- Reliable and precise measurement and control based on customer-specific design in own development and production
- Easy and flexible installation thanks to plug & play
- Economic operation thanks to low maintenance
- Long life thanks to high-quality materials and robust design
- Precise processing

Process sensors are available for the following parameters

- pH
- ORP
- Conductive/inductive conductivity
- Free chlorine
- Total chlorine
- Bromine
- Chlorine dioxide
- Chlorite
- Ozone
- Hydrogen peroxide
- Peracetic acid
- Fluoride
- Dissolved oxygen
- Temperature



Global service locally



We already offer our service to you even if you are not yet our customer. Our pre-sales services ensure that you get the optimum solution for your individual needs:

- **Advice in choosing the products**
- **Application and process optimisation**
- **Project planning**

However, our commitment does not end with delivery. We offer you a comprehensive after-sales service, which lasts for the entire service life of your equipment.

That maximises your productivity and minimises your operating costs:

- **Assembly/installation**
- **Commissioning**
- **Maintenance**
- **Spare parts service**
- **Repair**
- **Troubleshooting**

Thanks to our worldwide presence in over 100 countries, our service is available wherever you need it.



Further information:
www.prominent.com/service

World-wide contact



ProMinent is at home in more than 100 countries of the world. This guarantees world-wide availability of the products and short distances to the customer. We offer you the same high quality standard in products and services worldwide. For you at your location: experience and know-how in water treatment and chemical fluid handling are available world-wide.

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