

MEASUREMENT AND CONTROL



Grundfos Alldos

– measurement and control

User-friendly units for every need

To complement the Grundfos Alldos range of dosing technology, you can choose from a full range of controllers and measuring cells to ensure precision performance and full system integration. Special attention has been paid to making everything user-friendly and flexible – a single unit will often be enough to cover all your measuring and control needs.

From electrodes to complete preassembled systems

The dosing measurement and control range extends from simple electrodes to pre-assembled measuring and control systems mounted on a single plate for easy and immediate installation. Within this range you can also find everything from buffer solutions to hand-held photometric test units to optimise your dosing applications.

This brochure provides an overview of the products offered. For full details, visit our website at www.grundfosalldos.com.



The Conex® range of high-precision controllers includes complete preassembled units for easy installation.




Controllers

Conex® DIA – straight talk for everyone

Conex® units fall into two main categories: advanced (DIA) and standard (DIS) models. The DIA series are designed to be easy to use for non-experts.

A simple plain-text menu lets you complete your tasks quickly and easily without wasting any time on learning and deciphering codes. The units speak no less than seven languages, allowing virtually anyone to navigate the self-explanatory menus.

Conex® units monitor themselves, ensuring high water quality at all time. During calibration, they carry out a plausibility check to prevent mishaps. And the logbook function records sensor data and calibration values complete with date and time. The units also keep an eye on the temperature and make adjustments as necessary.



Conex® DIA-1		Universal measuring amplifier and controller	
	<p>The Conex DIA-1 is a sophisticated unit ideal for use in many disinfection applications.</p> <p>The easy-to-navigate user interface speaks seven languages, and you also get access to an automatic self adaption calibration feature, manual or automatic temperature compensation, a logbook function, and more.</p> <p>The Conex® DIA-1 can be incorporated in compact, wall-mounted preassembled units with the measuring cell that suits you.</p>	Monitoring and control parameters Chlorine Chlorine dioxide Ozone Hydrogen peroxide Peracetic acid pH Redox Fluoride	
Conex® DIA-2		Dual measuring amplifier and controller	
	<p>The Conex® DIA-2 essentially functions like two DIA-1 models combined in a single unit, allowing you to measure and control two parameters at the same time.</p> <p>Both parameters are shown on the display. This two-in-one approach minimises space requirements and installation time – and gives you all the Conex benefits.</p>	Monitoring and control parameters	
		Parameter 1 Chlorine Chlorine dioxide Ozone Hydrogen peroxide	Parameter 2 pH
Conex® DIA-2Q		Dual measuring amplifier and multi-functional controller	
	<p>The Conex® DIA-2Q is a special version of the DIA-2 particularly suitable for variable flow rates. It has all the features of the DIA-2, but allows you to measure and control more parameters.</p>	Monitoring and control parameters	
		Parameter 1 Chlorine Chlorine dioxide Ozone Hydrogen peroxide Peracetic acid	Parameter 2 pH Redox Fluoride

Controllers

Conex° DIS – for instrumentation specialists



The Conex° DIS series are simpler measuring amplifiers and controllers for those who want cost-efficient units and do not need the extra functionalities of the DIA series. Fitted with a powerful 16-bit micro-processor system and offering

a choice of settings, the DIS models ensure high water quality while reducing the volumes of chemicals dosed. Simplicity and efficiency combined.

Conex° DIS-C	Measuring amplifier/controller for conductivity	
	<p>The Conex° DIS-C will measure conductivity in a range of applications from bottle-washing to harsh desalination applications. This is because the DIS-C is available with a choice of conductive or inductive probes.</p> <p>When fitted with conductive probes, the DIS-C is suitable for pressures of up to 16 bar (25°C) and temperatures up to 135°C.</p> <p>DIS-C models with inductive electrodes are ideal for aggressive media because the measuring loops do not come into contact with the sample water.</p>	<p>Monitoring and control parameters Conductivity <i>(using either conductive or inductive measuring probes)</i></p>
Conex° DIS-PR	Simple measuring amplifier/controller for pH and redox	
	<p>The Conex° DIS-PR is designed for pH and redox measuring and control. It is a compact, cost-efficient unit aimed at users who are familiar with measuring and control processes and wish to use numerical programming to manage them.</p> <p>The DIS-PR features an integrated temperature function for added reliability.</p>	<p>Monitoring and control parameters pH Redox</p>
Conex° DIS-D	Simple measuring amplifier/controller for disinfection	
	<p>The Conex° DIS-D is designed to control disinfection processes that use chlorine, chlorine dioxide, or ozone.</p> <p>To ensure reliable operation, the DIS-D can be supplied with a separate sample water sensor that will immediately detect any shortage of sample water and give an alarm.</p>	<p>Monitoring and control parameters Chlorine Chlorine dioxide Ozone</p>

Preassembled units – when you want plug-and-play solutions
 Most Conex® controllers can be supplied as part of complete pre-assembled units that combine the controller, measuring cell and electrodes you need, all mounted on a plate ready for installation.



Conex® preassembled units		Get exactly what you need in the easiest way possible!	
	<p>Our preassembled units take our tried-and-tested electrodes and Conex® controllers, combine them to suit specific applications, and mount them on a plate ready for quick installation.</p> <p>Each combination is available with a choice of measuring cells and cleaning methods.</p> <p>Preassembled units can be fitted with: DIS-PR DIA-2 DIS-D DIA-2Q DIA-1 DIP</p>	Monitoring and control parameters	
		<p>Parameter 1 Chlorine Chlorine dioxide Ozone Peracetic acid Hydrogen peroxide</p>	<p>Parameter 2 pH Redox Fluoride</p>
DIP		Triple measuring amplifier/controller for pools	
	<p>The DIP amplifier / controller is specially designed for swimming pool applications. It will measure up to three parameters and control two parameters at the same time, giving you perfect control of the water quality of your pool.</p> <p>Like the Conex® DIA models, the DIP speaks seven languages, making it easy for non-experts to carry out all operations – particularly as a built-in plausibility check prevents operating errors.</p> <p>Other highlights include maintenance-free measuring electrodes, a sample-water sensor to prevent overdosing, and a choice of control functions.</p>	Monitoring and control parameters	
		<p>Measures up to 3 parameters simultaneously Chlorine or Chlorine dioxide or Ozone pH Redox</p> <p>Controls 2 parameters simultaneously Chlorine or Chlorine dioxide or Ozone pH</p>	
Conex® DIS-G		Gas warning unit	
	<p>The Conex® DIA-G gasdetect safety system is used for gas dosing systems in the treatment of drinking water, swimming pool water, industrial water and wastewater.</p> <p>The system includes acoustic and optical alarm facilities and represents an indispensable component of the Grundfos Alldos gas dosing systems.</p> <p>The microprocessor-based measuring amplifier has two sensor inputs and potential-free relay outputs. The sensors operate according to the amperometric principle. Potentiostatic sensors are also available.</p>	Monitoring parameters	
		<ul style="list-style-type: none"> - Chlorine - Chlorine dioxide - Ozone - Ammonia - Hydrochloric acid 	



*Our instrumentation philosophy
is simple: We give you straight talk
and complete control!*



Measuring cells and electrodes

Accessories

Our measuring cells and electrodes for dosing applications are made especially for all aspects of water treatment – e.g. for drinking water, boiler feed water, pure water, swimming pools and food industries such as dairies and breweries.

All electrodes and control equipment is supported by accessories that ensure perfect system integration – e.g. electrode holders, buffer solutions, starting reagents, and more.

Single-rod probes and electrodes		
	Grundfos Alldos offers a range of simple sensors – single-rod probes and electrodes – for specific measuring needs. The wide choice ensures that you can always find a sensor to match your application.	Monitoring parameters pH Redox potential Temperature Conductivity Hydrogen peroxide Peracetic acid Fluoride
Measuring cells		Measuring cells for chlorine, chlorine dioxide, or ozone
	The modular potentiostatic measuring cells are specially developed for disinfection processes. The units feature integrated filter cartridges, regulating devices, and temperature measurement. Cleaning is hydro-mechanical or carried out by an electric cleaning motor – and with a simple conversion kit you can always switch to motor cleaning later if you choose hydromechanical versions now. Also available in pressure-proof versions for applications if no loss of sample water is acceptable.	Monitoring parameters Chlorine Chlorine dioxide Ozone pH Redox Temperature
Measuring cells		Wide range of electrode holders and accessories
	Grundfos Alldos offers a wide range of equipment to assist your processes. Examples include single or complete electrode holders and flow-through fittings with electrode cables.	Monitoring parameters Hydrogen peroxide Peracetic acid pH Redox Temperature
DIT		DIT
	<p>The DIT photometer is a compact and hand-held unit that lets you test a number of water parameters quickly and accurately.</p> <p>The patented two-beam principle ensures that you get precise results within a few minutes – sometimes even after just seconds.</p> <p>You don't need to carry out zero-point adjustments for subsequent measurements; the results remain accurate even after repeated measuring.</p>	Monitoring parameters Aluminium Hydrazine Ammonium Manganese Chlorine (free) Nickel Chlorine Nitrate (combined) Nitrite Chlorine dioxide Ozone Chromium pH Cyanide Phosphate Cyanuric acid Redox Iron Temperature Fluoride

Together we can give you everything

Grundfos and Alldos have joined forces. Integrating our product portfolios under the new 'Grundfos Alldos' brand, we are now the full-line solution provider for all your dosing and disinfection applications.

You now benefit from a far broader scope of expertise and technology. Grundfos Alldos provides you with the very best in:

- Digital Dosing™ pumps
- Mechanical dosing pumps
- Disinfection systems
- Measurement and control
- Turnkey project management

Together we give you precisely the right mix.

The right amount of experience and expertise

A winning blend of unique competences ensures that you get the very best technology and service.

Founded in 1945 in Bjerringbro Denmark, Grundfos is a leading global supplier of innovative pump technology and the pioneer of Digital Dosing™. Alldos, established in 1968 in Pfinztal Germany, is also an industry leader whose vast expertise encompasses dosing pumps, measurement and control, and disinfection technology.

Together we can put even more resources into the constant development of new and better dosing and disinfection technology. Grundfos Alldos has the experience, expertise, resources, and range to deal with absolutely all your needs.