

INSTRUMENTATION



Grundfos Instrumentation

– Measurement and Control

User-friendly units for every need

To complement the Grundfos 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 pre-assembled systems

The dosing instrumentation 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 optimize your dosing applications.

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






The Conex® range of high-precision controllers includes complete pre-assembled systems for easy installation.

Controllers

Conex® DIA – straight talk for everyone

The DIA series (Dosing Instrumentation Advanced) 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.

DIA units monitor themselves, ensuring high water quality at all times. 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 pre-assembled systems with the measuring cells that suit you.</p>	<p>Monitoring and control for one of the following parameters:</p> <ul style="list-style-type: none"> › Chlorine › Chlorine dioxide › Ozone › Hydrogen peroxide › Peracetic acid › pH › Redox › Fluoride 														
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Conex® DIA-2	Dual measuring amplifier and controller															
	<p>The Conex® DIA-2 essentially functions like two DIA-1 models combined into 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 minimizes space requirements and installation time – and gives you all the benefits of Conex.</p>	<p>Monitoring and control parameters</p> <table border="1"> <thead> <tr> <th>Parameter 1</th> <th>Parameter 2</th> </tr> </thead> <tbody> <tr> <td>› Chlorine</td> <td>› pH</td> </tr> <tr> <td>› Chlorine dioxide</td> <td></td> </tr> <tr> <td>› Ozone</td> <td></td> </tr> <tr> <td>› Hydrogen</td> <td></td> </tr> <tr> <td>› Peroxide</td> <td></td> </tr> </tbody> </table>	Parameter 1	Parameter 2	› Chlorine	› pH	› Chlorine dioxide		› Ozone		› Hydrogen		› Peroxide			
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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>	<p>Monitoring and control parameters</p> <table border="1"> <thead> <tr> <th>Parameter 1</th> <th>Parameter 2</th> </tr> </thead> <tbody> <tr> <td>› Chlorine</td> <td>› pH</td> </tr> <tr> <td>› Chlorine dioxide</td> <td>› Redox</td> </tr> <tr> <td>› Ozone</td> <td>› Fluoride</td> </tr> <tr> <td>› Hydrogen</td> <td></td> </tr> <tr> <td>› Peroxide</td> <td></td> </tr> <tr> <td>› Peracetic acid</td> <td></td> </tr> </tbody> </table>	Parameter 1	Parameter 2	› Chlorine	› pH	› Chlorine dioxide	› Redox	› Ozone	› Fluoride	› Hydrogen		› Peroxide		› Peracetic acid	
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Controllers

Pre-assembled systems – for when you want plug-and-play units

Most Conex® units can be supplied as part of complete pre-assembled systems that combine the controller, measuring cell and electrodes you need, all mounted on a plate ready for installation.



Measuring cells and electrodes

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.

Accessories

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

Conex® pre-assembled systems		Get exactly what you need in the easiest way possible!															
	<p>Our pre-assembled systems 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>Pre-assembled systems can be fitted with:</p> <ul style="list-style-type: none"> › DIA-2Q › DIA-2 › DIA-1 › DIP <p><i>The DIA-2Q pre-assembled unit is the preferred option.</i></p>	<p>Monitoring and control parameters</p> <table border="1"> <thead> <tr> <th>Parameter 1</th> <th>Parameter 2</th> </tr> </thead> <tbody> <tr> <td>› Chlorine</td> <td>› pH</td> </tr> <tr> <td>› Chlorine dioxide</td> <td>› Redox</td> </tr> <tr> <td>› Ozone</td> <td>› Fluoride</td> </tr> <tr> <td>› Peracetic acid</td> <td></td> </tr> <tr> <td>› Hydrogen</td> <td></td> </tr> <tr> <td>› Peroxide</td> <td></td> </tr> </tbody> </table>		Parameter 1	Parameter 2	› Chlorine	› pH	› Chlorine dioxide	› Redox	› Ozone	› Fluoride	› Peracetic acid		› Hydrogen		› Peroxide	
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<p>Conex® DIA-1</p> <p>Compact measuring systems</p> <p>314-711; for acetic acid 314-811; for hydrogen peroxide 314-350; for free chlorine (with Conex® DIA-1, Conex® DIA-2 or Conex® DIA-2Q)</p>		<p>Monitoring and control parameters</p> <ul style="list-style-type: none"> › acetic acid › Hydrogen peroxide › Free chlorine (with Conex® DIA-1, Conex® DIA-2 or Conex® DIA-2Q) 															
<p>DIP</p> <p>Triple measuring amplifier/controller for pools</p> <p>The DIP (Dosing Instrumentation Pool) 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>Monitoring and control parameters</p> <p>Measures up to 3 parameters simultaneously</p> <ul style="list-style-type: none"> › Chlorine or Chlorine dioxide, or › pH › Redox <p>Controls 2 parameters simultaneously</p> <ul style="list-style-type: none"> › Chlorine or Chlorine dioxide, or › Ozone › pH 															

Single-rod probes and electrodes		Monitoring parameters	
	<p>Grundfos 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.</p>	<ul style="list-style-type: none"> › pH › Redox potential › Temperature › Hydrogen peroxide › Peracetic acid › Conductivity 	
Measuring cells for chlorine, chlorine dioxide, or ozone		Monitoring parameters	
	<p>The modular potentiostatic measuring cells are specially developed for disinfection processes. The units feature integrated filter cartridges, regulating devices, and temperature measurement. Cleaning is carried out by an electric cleaning motor. Pressure-proof versions are also available if no loss of sample water is acceptable.</p>	<ul style="list-style-type: none"> › Chlorine › Chlorine dioxide › Ozone › pH › Redox › Temperature 	
Measuring cells		Wide range of electrode holders and accessories	
	<p>Grundfos offers a wide range of equipment to assist your processes. Examples include single or complete electrode holders and flow-through fittings with electrode cables.</p>	<p>Monitoring parameters</p> <ul style="list-style-type: none"> › Redox › Peracetic acid › pH › Hydrogen peroxide › Temperature 	
DIT photometer		Monitoring parameters	
	<p>The DIT photometer is a compact, 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 quick precise results within a short period.</p> <p>You don't need to carry out zero-point adjustments for subsequent measurements; the results remain accurate even after repeated measuring.</p>	<p>Monitoring parameters</p> <ul style="list-style-type: none"> › Aluminum › Ammonium › Chlorine (free) › Chlorine (comb.) › Chlorine dioxide › Chromium › Cyanide › Cyanuric acid › Iron › Fluoride › Conductivity › Hydrazine › Manganese › Nickel › Nitrate › Nitrite › Ozone › pH › Phosphate › Redox › Temperature 	

Innovation in its purest form

Grundfos created Digital Dosing™ – both as a concept and by developing the world's first ever Digital Dosing™ pump range. Our Digital Dosing™ pumps represent innovation in its purest form, and this patented method sets an entirely new standard for dosing technology. It enables our customers to achieve extreme accuracy at the touch of a button.

Ongoing research and development

The Digital Dosing™ pump range is only one example of how Grundfos remains at the forefront of pumping technology. At Grundfos, research and development is an ongoing process, and a very large proportion of our annual earnings is channelled straight back to developing new and innovative pump solutions.

Ready for the future

Grundfos now offers you much More Than Digital Dosing™. Since the acquisition of dosing specialists ALLDOS, we have become a full-line supplier, offering an unmatched range of state-of-the-art dosing solutions.

Building upon the success of Digital Dosing™, we now offer mechanical diaphragm pumps, piston/diaphragm pumps, instrumentation, and accessories. With Grundfos, you get . . .

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