

# Continuous energy optimization and clogging prevention

Pumping station controller







## Dedicated Controls:

Ready made solutions with new controller CU 362

### Full control. From anywhere.

If you want complete control – including from a remote location – look no further. Dedicated Controls is an intelligent monitoring and control solution developed specifically for network pumping stations and commercial buildings.

They are designed to control up to six pumps in sewage pumping stations. This makes them an excellent choice for mains systems, commercial buildings, and similar applications.

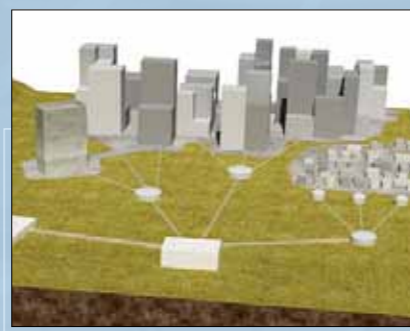
#### Dedicated Controls at a glance

With their integrated control and communication options, the Dedicated Controls solutions expand the scope of the Grundfos controls range. Here are some of the main features:

- Continuous energy optimization according to duty condition
- Control up to six pumps in groups
- Random start levels
- Fast commissioning with Wizard function
- User-friendly color display interface
- Flow estimate
- Anti-clogging function
- Analogue inputs 4-20 mA (pressure/ultrasonic transmitters) and/or up to five float switches
- Connection can be made via wired or wireless networks to SCADA and BMS systems
- Full data logs on all values
- Text messaging – control pumps and receive status information via SMS
- Compatible with the Grundfos Remote Management system with option CIM 270
- Overflow detections and measurement
- Effective and reliable control functions
- Available as ready made control cabinets
- Easy set-up wizard
- Advanced alarm scheduler
- PC Tool included for configuring and maintenance
- USB port for connection of PC Tool
- Enable to run frequency converter (VFD)



*Dedicated Controls are ideal for network pumping stations, allowing reliable control of six pumps and a mixer*



*Commercial buildings can integrate sewage handling in their building management system*



*Advanced pressurised pumping stations get the final touch with Dedicated Controls*



## Energy reducing

To ensure the lowest possible specific energy consumption (kwh/m<sup>3</sup>), Dedicated Controls continuously learns and adapts to duty conditions in the specific pumping system. The controller immediately adapts pump speed in response to data from the frequency drive (Grundfos CUE) and a flowmeter. Specific energy consumption can also be provided by the electronic motor protection (Grundfos MP 204). This gives a continuous overview of pumping efficiency, enabling timely service and maintenance of pumps and mains.



## ANTI-Clogging

The new "Flush and reverse" function prevents clogging caused by the increasing amounts of the fibrous component and solids in sewage today. The anti-clogging function acts on any abnormal events to stop pumps from blocking, avoiding costly downtime.



## Flexibility for local adaption

Dedicated Controls has a number of free input/outputs for extra sensor inputs (e.g. temperature sensors) or extra relay outputs (e.g. valve operation). Set-up is highly intuitive via the large display or via Grundfos pc tool, and no extra programming is required.

## Communication options to match your requirements



*Receive input and control your pumps via your computer, mobile phone, or over the Internet*

#### Stay in touch from a distance

We believe in open protocols. That's why your Dedicated Controls solution can be connected to any SCADA system, allowing you remote access to your pumping station. You can control the pumps, change their setting, and access information such as alarm readouts, alarms, and operation data. As shown above, connections can be created either via wired networks or wireless technology such as GPRS/GSM networks.

If you choose WebAccess via Grundfos Remote Management system (GRM), you can communicate via your computer, the Internet, or via mobile phones as you choose.

#### Helps reduce costs

Taking complete control has many advantages. The time spent on reporting, data collection, etc. is minimized – as are service visits. When you always know how your stations are doing, maintenance visits can be scheduled for maximum efficiency – and emergencies reduced to the barest minimum. Giving your system Dedicated Controls can pay dividends in very little time.



## SEE THE BIGGER PICTURE

Grundfos is a global leader within water handling technology. Our passion is to bring you all the products you require to create and operate pump systems that combine reliability, cost-efficiency – and innovation. Our products are for use in water supply and wastewater infrastructure on any scale.

Grundfos has a full line of products and systems for the intake, treatment, and distribution of drinking water and for the transport and treatment of wastewater. We also offer expertise and industry insight that can increase reliability and reduce lifecycle costs for water utilities.

Key product areas include:

-  Submersible pumps
-  Surface pumps
-  Sewage pumps
-  Mixers, flowmakers & recirculation pumps
-  Pumping stations
-  Monitoring & controls
-  Dosing & disinfection
-  Aeration equipment

Further details about Grundfos communication interfaces and Remote Management are available on request – contact your local Grundfos office or representative.

Our products are the result of decades of engineering expertise. Supported by a worldwide service network. Visit [www.grundfos.com](http://www.grundfos.com) for more.