

Continuous energy optimisation 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.

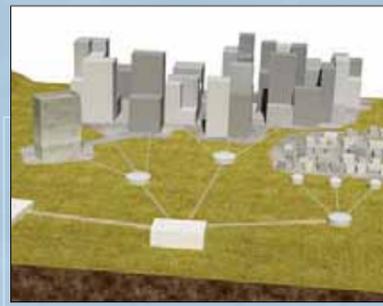
Dedicated Controls at a glance

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 optimisation 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/m³), 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 minimised – 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.

DEDICATED CONTROLS FOR WASTEWATER

Dedicated Controls lets you control up to six pumps in wastewater applications in main, network and pressurised pumping stations. A range of advanced features allows for system measurement and calculation and integration with other monitoring, control and energy optimising equipment.

The anti-clogging attributes of the flush and reverse function are unique to Dedicated Controls, as is the ability for continuous energy optimisation according to duty condition.

The user-friendly colour display interface has an intuitive and easy-to-follow installation wizard, and you can also choose your language.

Dedicated Controls enables an easy integration to SCADA or BMS systems for monitoring, and is prepared for SMS, allowing control pumps and receiving information from the pumping station on request.