

ngdrive

The next generation variable frequency drive

Control and savings
for pressure boosting and circulation



DABPUMPS.COM

ngdrive

Control, protection and savings



NgDrive is a protection and control variable frequency drive designed to manage pressure booster and circulation pumps, adjusting motor speed to suit the system's actual requirements.

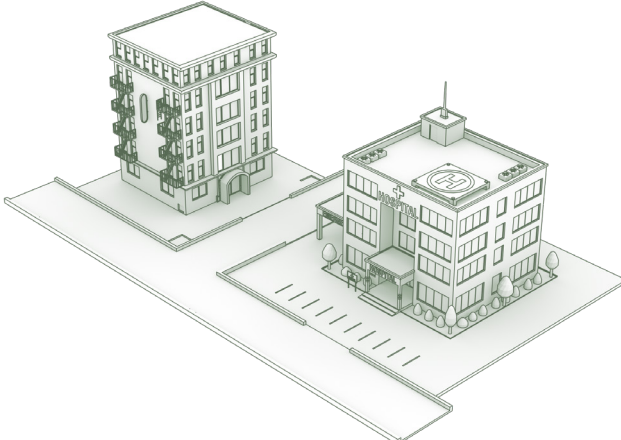
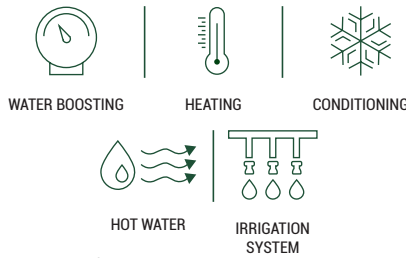
Ideal for applications in residential and commercial settings, it optimizes installation management and monitoring; maximizes energy efficiency by reducing consumption and avoiding waste; and reduces mechanical stress on the motor, essentially making the whole pumping system more effective and reliable.

With a certified IP55 protection rating, it withstands the ingress of dust and water, so it can even be installed outdoors, where there is no direct and complete exposure to bad weather and sunlight.

Compatible with DAB pumps as well as other products in the market, **NgDrive** is also suitable for upgrading obsolete installations.



APPLICATION' EXAMPLE



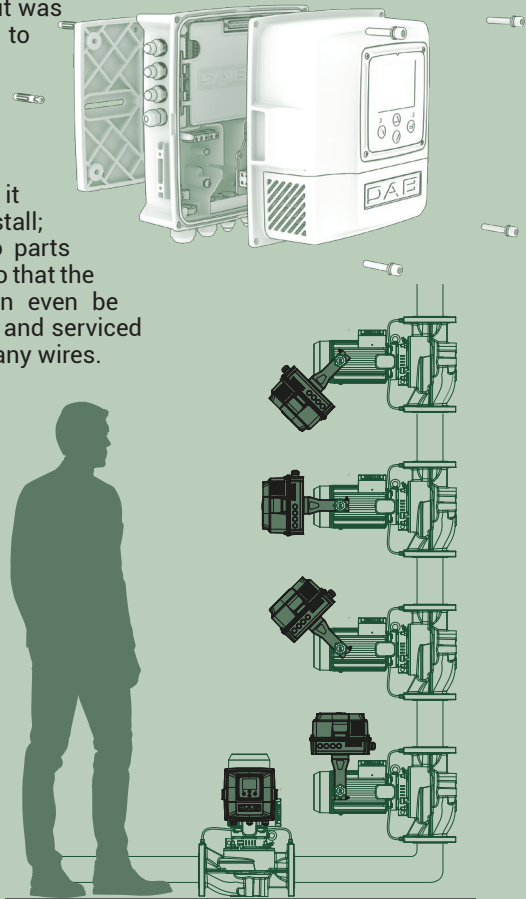
NgDrive is used for pressure booster and circulation in residential and commercial settings, in both internal and external plants, where there is no direct and complete exposure to bad weather and sunlight. It can manage systems ranging in size from a single house to commercial medium-sized complexes.

Functional design



While **NgDrive** won the **iF Design Award 2023**, this is not just design for design's sake; instead, it was conceived specifically to cater to the needs of its users: it can be mounted on a wall or on the pump; it is light and easy to handle, thus making it more practical to install; and it is split into two parts that can be separated so that the components inside can even be fitted at different times and serviced without disconnecting any wires.

Lastly, with the special mount designed to offer 5 tilt angles, **NgDrive** can be mounted on the actual pump in whatever position is most convenient for the system in question.



VERSION

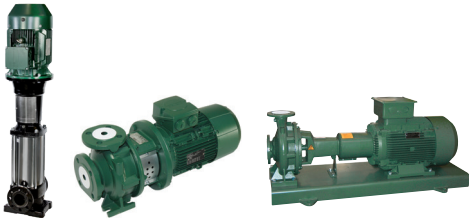


| | NGDRIVE M/T 1.1kW* | NGDRIVE M/T 2.2 kW* | NGDRIVE T/T 2.2 kW* | NGDRIVE T/T 3.5 kW* | NGDRIVE T/T 7.5 kW* |
|------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| FREQUENCY (Hz) | 50/60 | | | | |
| INPUT VOLTAGE V_{in} (VAC) | 1 x 220-240 +/- 10% | 1 x 220-240 +/- 10% | 3 x 220-240 +/- 10% | 3 x 400 +/- 10% | 3x380-480 +/-10% |
| OUTPUT VOLTAGE V_{rms} | 3 x V_{in} | 3 x V_{in} | 3 x V_{in} | 3 x V_{in} | 3 x V_{in} |
| MAX INPUT CORRENT (A) | 6 | 10.5 | 10.5 | 8 | 18 |

* Typical power values for IE2/IE3 asynchronous motors

FOR USE WITH:

CENTRIFUGAL PUMPS



NKV, NKP-G, NKM-G, KDN

CIRCULATION AND IN-LINE PUMPS



CM, CM-G, DCM, DCM-G, CP, CP-G, DCP, DCP-G, CP2, CP2-G, DCP2, DCP2-G

SUBMERSIBLE PUMPS



S4, SS6

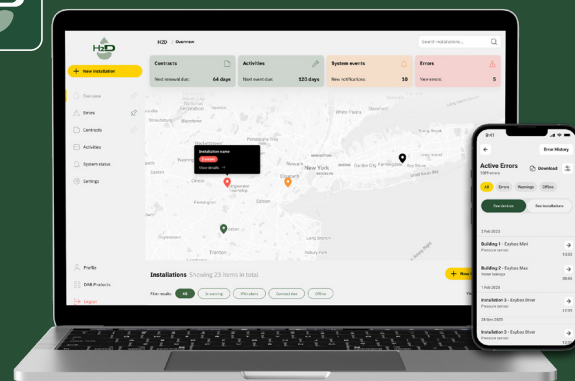
Dab's smart system

When it comes to system safety and control, having an intuitive solution to keep everything under control is key. And when it comes to energy efficiency, even small variations in motor speed can greatly limit effectiveness in keeping consumption and costs down. This is why DAB has developed a controller to handle all this for you: **NgDrive** is not just a variable frequency drive, it is the hardware component of a fully-fledged smart system, the technological product of over 40 years' experience in the water handling sector.

NgDrive meets a system's every need. A single product, one device catering to pumps of different kinds – even from other brands – to produce savings, improve the system's efficiency and protect its components.



DISCOVER MORE





Keeping you in your comfort zone

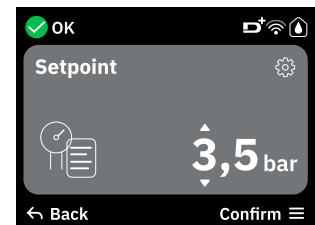
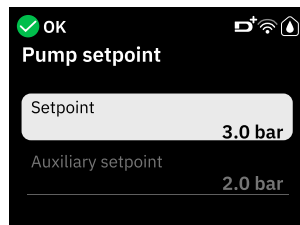
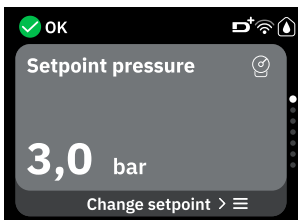
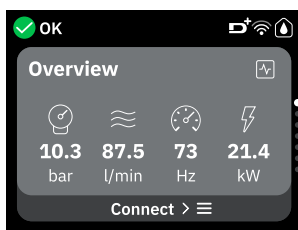
WORK THE WAY YOU'RE USED TO

With **DAB Virtual Cockpit**, you can control all your systems in exactly the same way that you would control the TV at home, for example.

So there is no need to change the way you approach everyday tasks in order to interact with **NgDrive**: everything from the initial configuration to system monitoring and monitoring consumption becomes a familiar, intuitive experience.



AS EASY AS USING REMOTE CONTROL

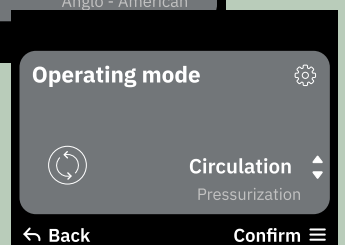
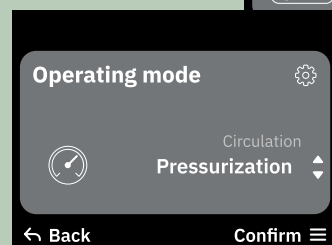
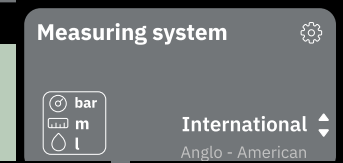


The wizard

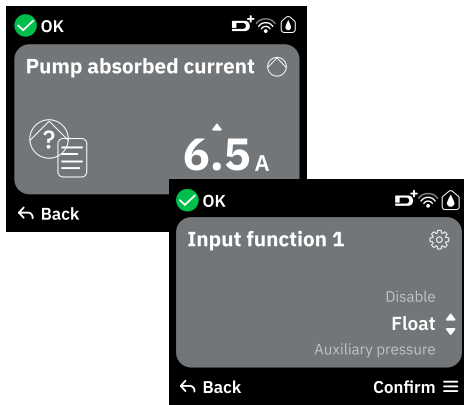
Setting up the system is extremely quick thanks to the wizard, which walks you through the process in a few simple key steps that in just 5 minutes to get the system up and running.

The steps:

- 1) Language and measure system setting
- 2) Choice of operating mode
- 3) Operation mode: pressurization or circulation



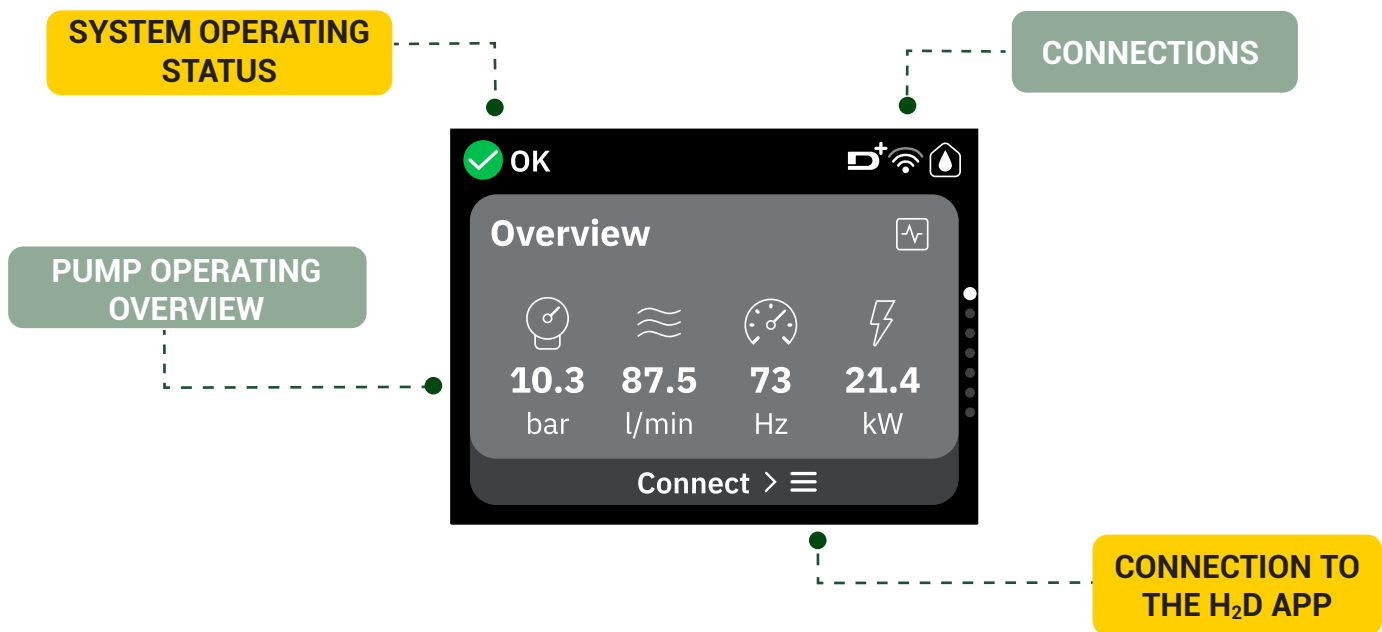
System specific parameters



The 2 compulsory basic parameters to be entered, instead of starting with factory settings, provide guidance, helping you set up the system exactly how you need it to be. The need to customize these settings is an added value, resulting in a quality installation, as you can be confident that you have set everything up perfectly to ensure the wastewater management system works as efficiently as possible.

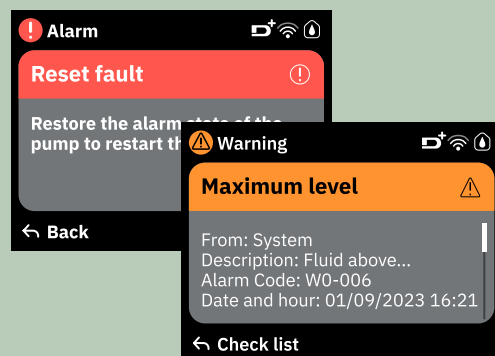
Homepage: control and protection at a glance

On a single clear, user-friendly screen, **DAB Virtual Cockpit** summarizes all the key information to be monitored in order for the system controlled with **NgDrive** to work at its best. The homepage also provides access to menus for the individual sections to allow you to edit their parameters, employing a consistent vertical scroll logic across all menus.



Errors and warnings log

This section records a **log of errors** that have occurred and provides you with the information required to determine why and when the system had issues. This is actually a useful analysis tool to have in your arsenal, helping you keep constant track of the installations' performance.



Error



Warning

Work just got smarter

H₂D simplifies work routines: it's the ideal tool for meeting customer needs in an instant and growing your business.



H₂D is a platform — coming in a mobile and desktop version — that pairs with latest generation DAB devices to show you what's going on inside systems.

It allows you to optimize their operation remotely, saving time, resources and money.

Ideal for anyone seeking to future-proof their business with solutions designed to improve processes, offer more service, and be environmentally responsible.



H₂D tools deliver **professional outcomes and benefits for all**

Improving workflows means freeing up time to focus on other areas of your business. By choosing H₂D, you improve customer service, reduce the number of emergencies and grow your business, effortlessly.

Monitoring

Analysis

Action



Optimize time and work

On-site work is no longer always required: H₂D allows systems to be controlled remotely and, where needed, work on site is easier to plan.



More service and less urgent callouts = increased profit

With remote control of systems, it's easy to offer 24/7 monitoring and preventive maintenance services. Systems are less prone to faults and emergencies, meanwhile your business grows.



Problem fixed first time, every time

When there's no choice but to go to site, H₂D provides all the info you need to prepare the job beforehand for a quick and permanent fix, so the technician can get everything done in one go.



Satisfied customers

With parameters optimized remotely, consistently smooth system operation is assured: the customer will never experience water issues again.



Little or no disruption

Remote monitoring reports faults in real time and allows you to address potential issues before they become a problem, and take prompt remedial action where required, ultimately reducing any disruption.

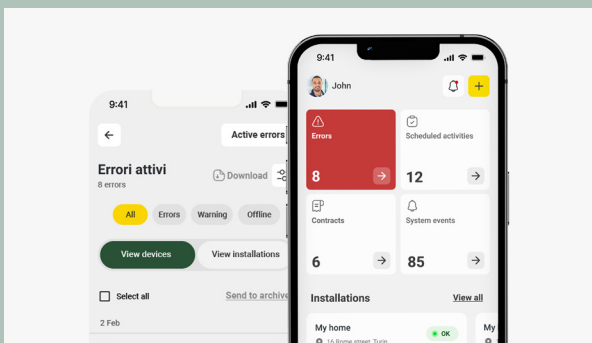


From DConnect to H₂D

H₂D replaces and improves on DConnect, our first remote control system. Latest generation DAB products connect effortlessly to H₂D.

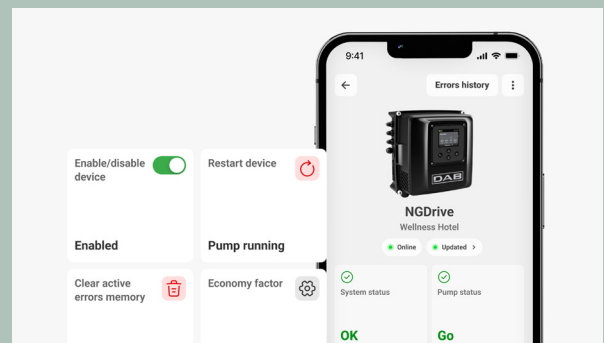
H2D App and H2D Desktop are **the ideal business tools**

The H2D tools work in unison: with user-friendly access on your smartphone, it's never been easier to communicate with pumps on site or keep an eye on your systems from anywhere. While the desktop version for tablets and computers is perfectly suited to data analysis and processing. The two solutions are integrated and complementary.



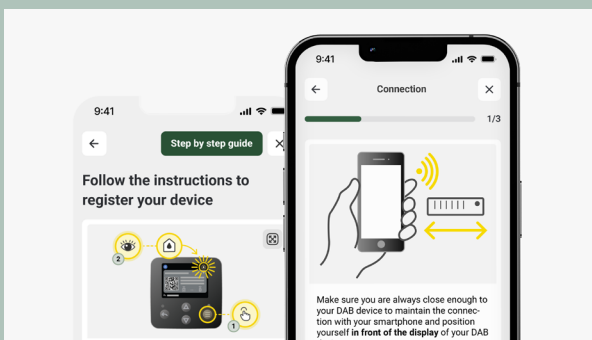
All the info you need, at a glance

H2D displays all installations and respective statuses on a single screen. A top-level display allows you to quickly check for errors and view the details of each.



Edit parameters remotely in a matter of clicks

Wherever you are, it's easy to update the system's configuration, turn it on and off, edit configuration, and so much more.



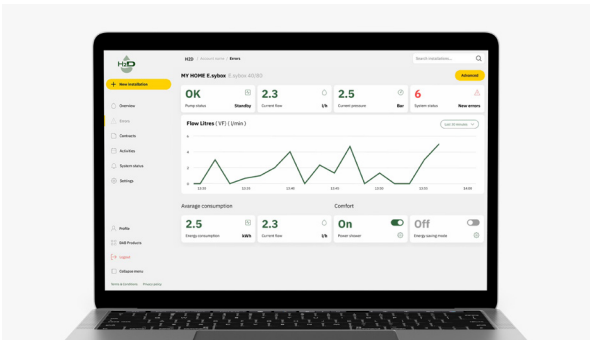
Installing pumps is easier than ever

Sometimes systems are located in hard-to-reach places: with H2D, you can switch from configuration on the pump to configuration using your smartphone.



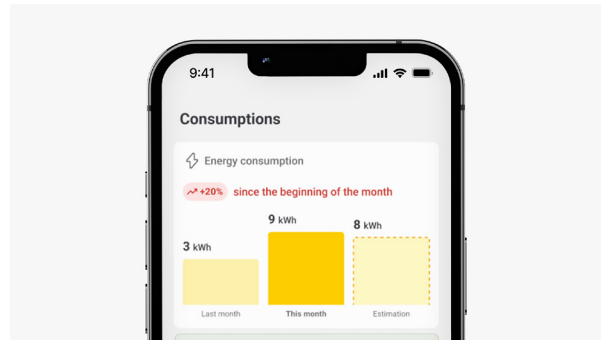
With notifications, systems are always under control

When needed, H2D sends real-time notifications to your smartphone: this means you always know what's going on with your installations.



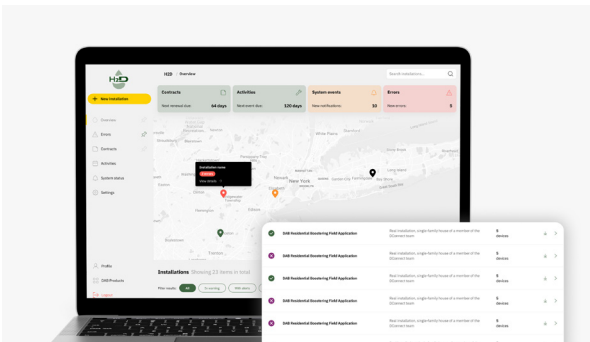
H2D Desktop is for more detailed processing

The analysis of historical data is essential to improve the effectiveness of each system, prevent faults, and take precise action when needed.



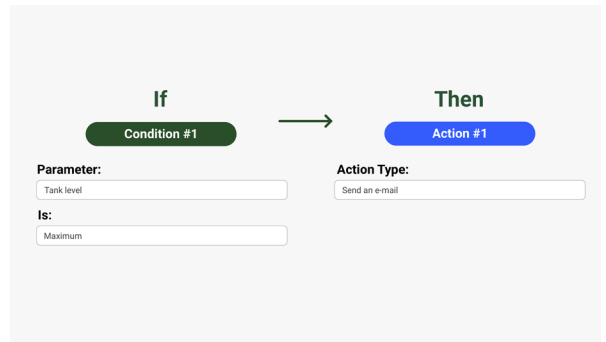
Keep track of usage

Checking water and energy consumption is simple and straightforward.



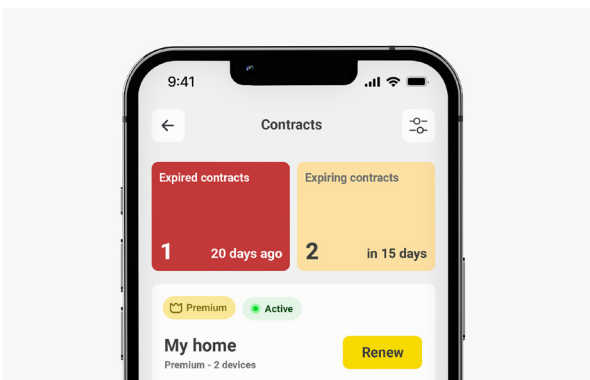
The map of systems helps you plan work

The geographical location of systems shows what efficiencies may be gained when it comes to routine checks: it's easy to plan the route and optimize time and work on site.



Simply set your own rules to customize each system.

H2D lets you set your own rules and notifications, resulting in reliable, quick and simple monitoring, too.



The contracts section is your very own dedicated management software

Keep track of contracts and expiry dates, too, with the integrated management software, which communicates with whoever is in charge of admin.

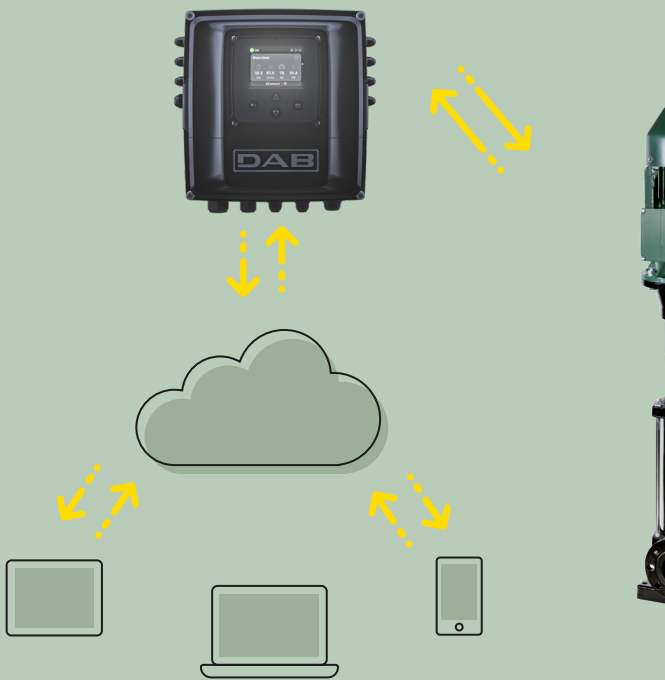


What about the rules?

NgDrive is a versatile controller that you can reach any time, in whatever way suits you: either using remote access or on-site access through the app.

Remote access

Remote access even allows you to **monitor pumping station operation** from the office, or anywhere else with an internet connection: this means you can take fast action in the event of a breakdown or malfunction. In addition, a full complement of sensors and the continuous exchange of data makes it easy to analyse and optimize the system.



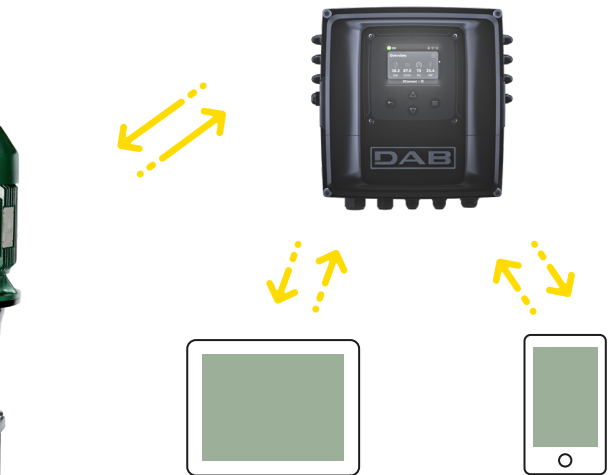
Building automation system

With the **Modbus RTU** communication module, NgDrive can communicate with all BMSs (*Building Management Systems*). Modbus is used to collect and transmit data over an RS485 line, and allows communication between different devices connected to the same network. In simple terms, it can be used to transmit information over serial lines between electronic devices.



Local access

When dealing with installations where NgDrive is hard to access, a local Bluetooth connection can be used to interact effortlessly with the system straight from the H₂D app.





DIFFERENTIAL SENSOR



FLOW SENSOR



PRESSUR SENSOR 25 BAR



FLANGE FOR FLOW SENSOR



PRESSUR SENSOR 4-20 MA - 25 BAR



FLOW SENSOR CABLE



PRESSURE SENSOR CABLE



With DAB pumps and H2D, systems **become smart ecosystems.**



Download on the



Google play

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