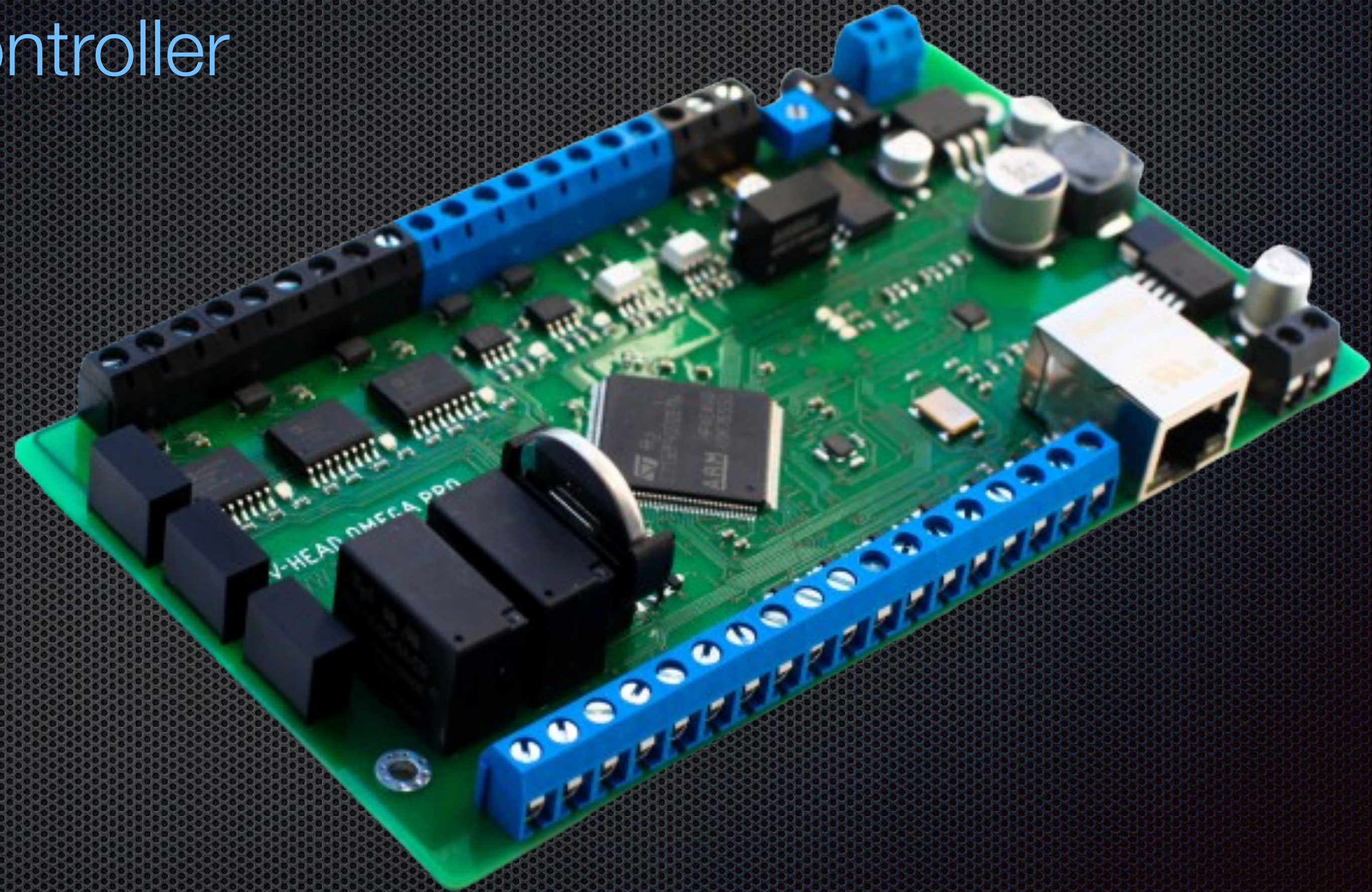# DVC Technologies

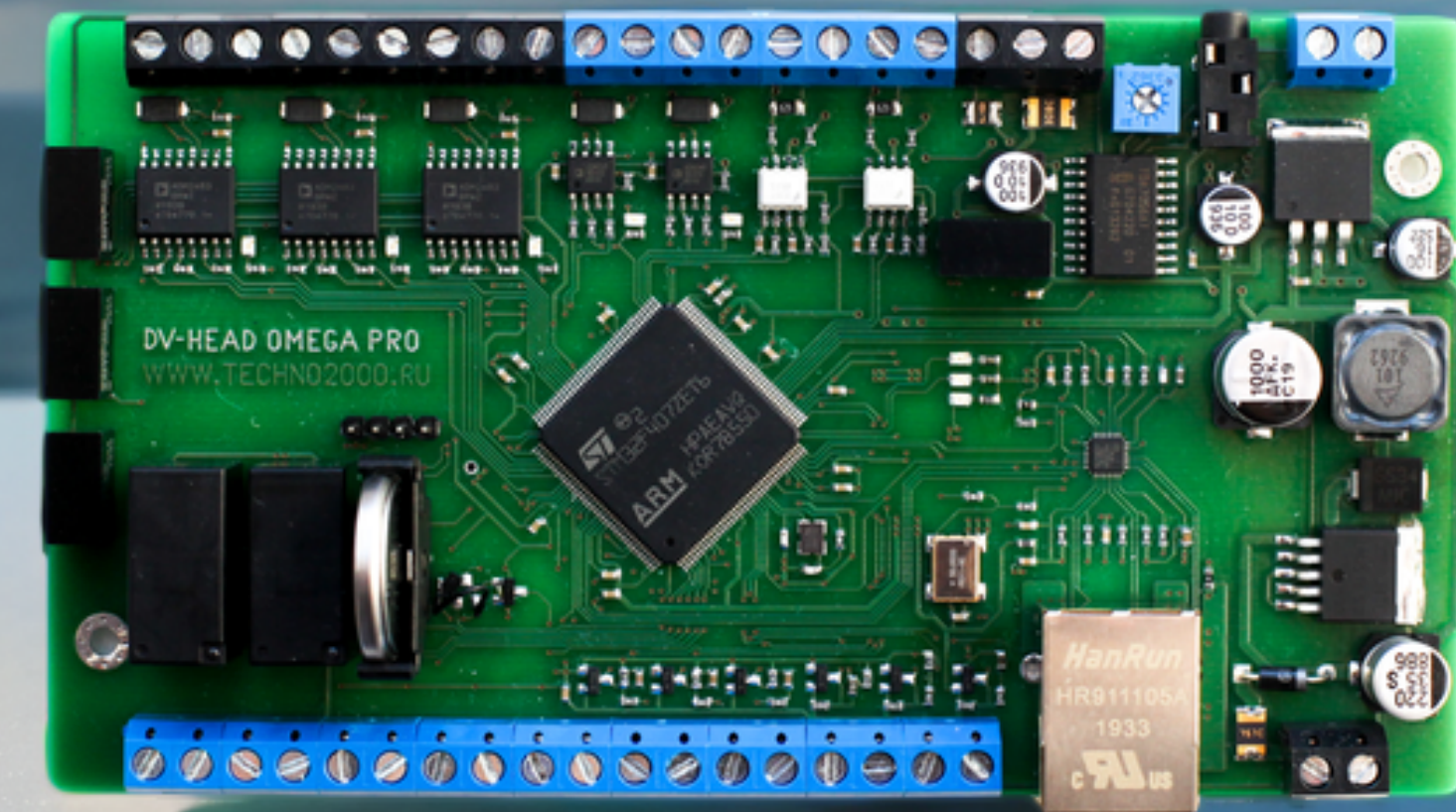## DVC Head Family Controllers

DVC Head PRO controller

- DVC Head PRO

DVC Technologies

DVC Head PRO controller

Description :

- **DVC Head PRO** is a multifunctional, freely configurable central controller based on STM32 F407 microcontrollers. The controller is configured in special **Division Constructor** software and is connected and controlled from the **DVC CLOUD** cloud

- **DVC Head PRO** has 5 RS485 ports (with the ability to connect up to 32 peripheral controllers per port) of which two are isolated, has 2 relays, 3 ADCs and 4 discrete inputs and 6 solid-state relays on board. Has a clock and voice module.

- **DVC Head PRO** can be used as part of the **DVC CLOUD** system or in stand-alone mode.
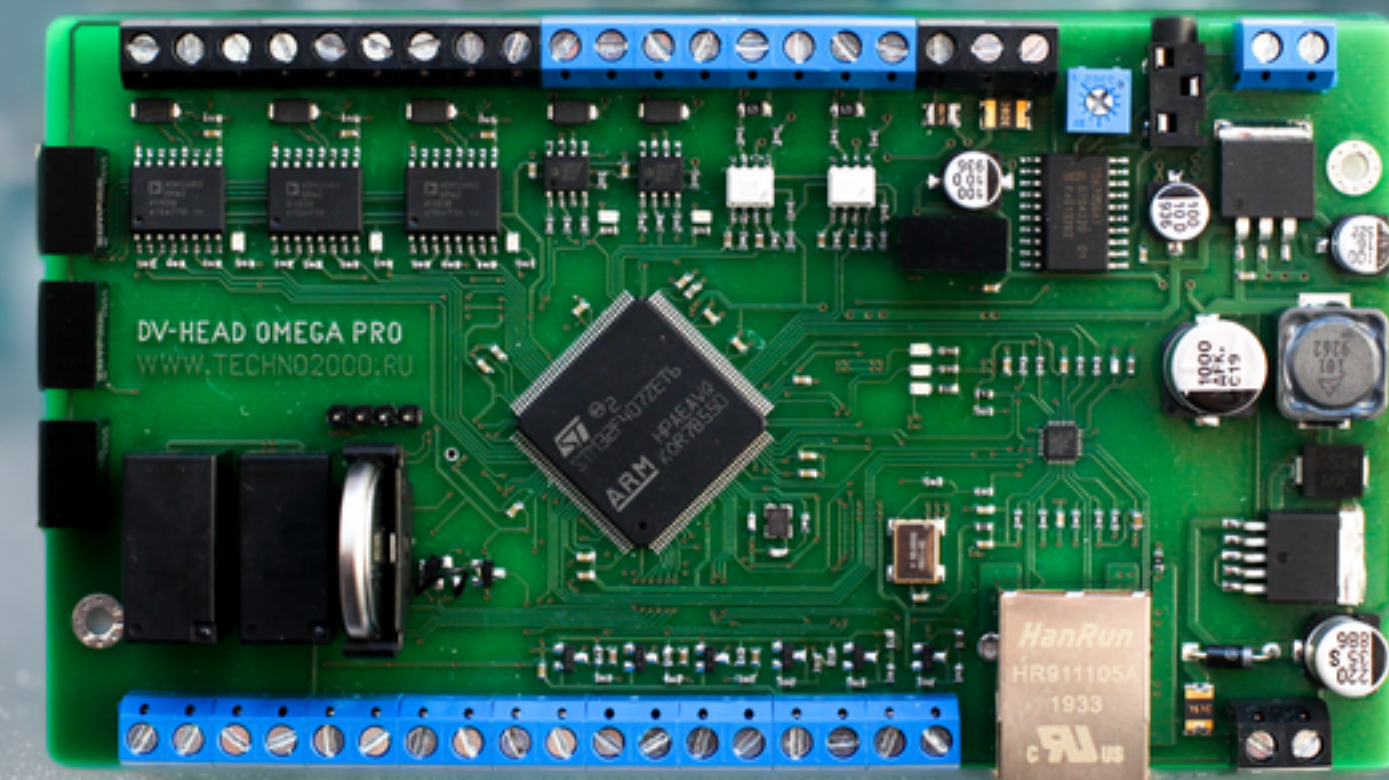
DVC Technologies

DVC Head PRO controller

- **DVC Head PRO** is powered by a standard 12V source, the number of connected external controllers is up to 256, has 1 LAN PORT, 1 TCP Client and 8 built-in TCP servers, has increased reliability and noise immunity

- Structurally, the controller is housed in a housing for installation on a 9DIN DIN rail

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DVC Head PRO controller

- **DVCHead PRO** receives data on site from peripheral controllers, many of which are also actuators, as shown in the diagram

- For detailed characteristics of this unique controller, see the technical description

- The controller's capabilities are practically limited only by your imagination. It can freely solve automation problems for an entire enterprise.
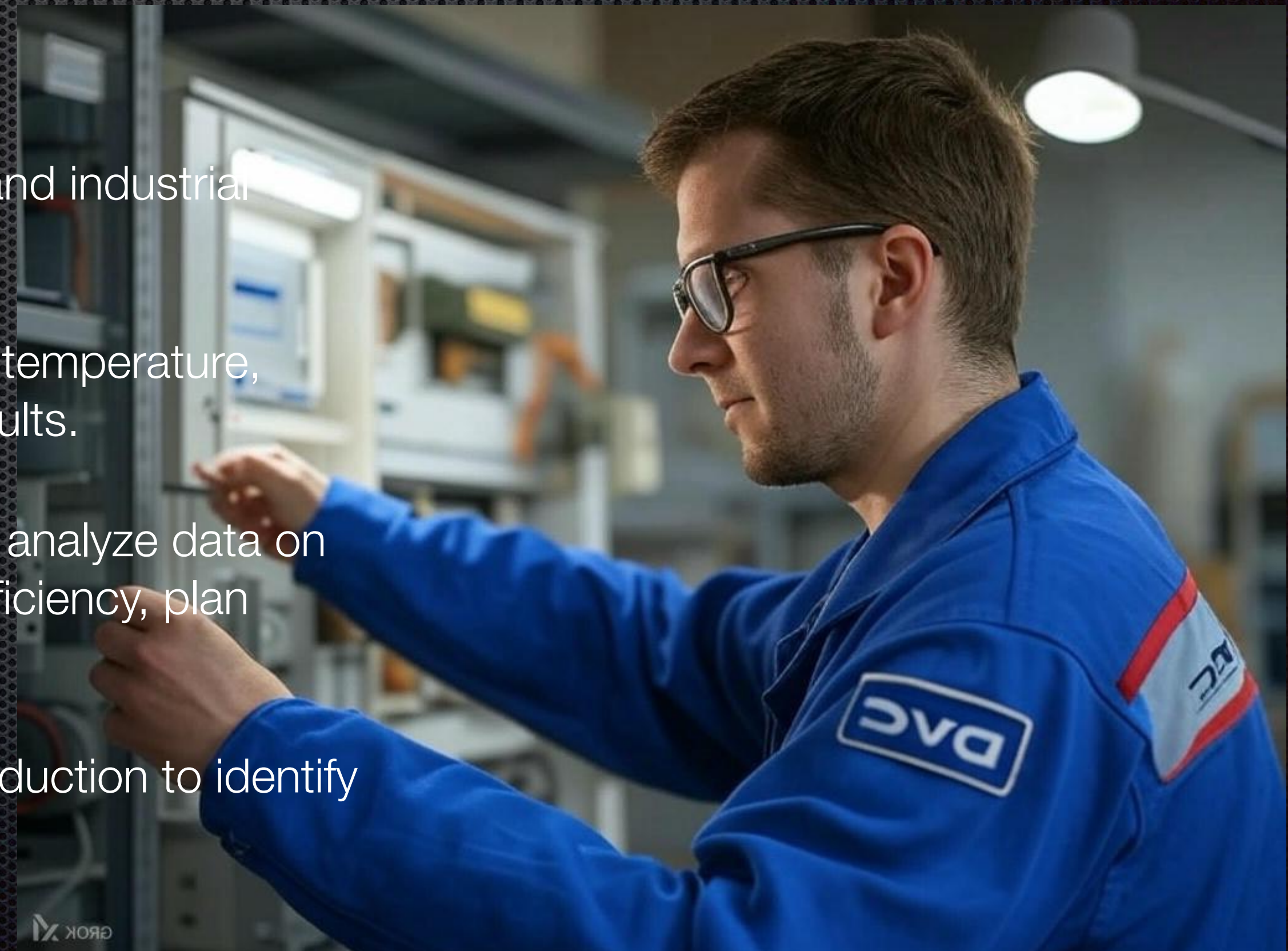
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DVC Head PRO controller

used as a central controller in tasks such as:

- Dispatch systems for industrial enterprises of various types, office and industrial buildings

- Monitoring and remote control of industrial installations: Monitoring temperature, vibration and other equipment parameters for timely detection of faults.

- Monitoring and optimization of production processes: Collect and analyze data on the operation of equipment, including conveyor lines, to improve efficiency, plan maintenance and prevent downtime.

- Product quality control: Monitoring parameters at all stages of production to identify and eliminate defects in real time.

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DVC Head PRO controller

used as a central controller in tasks such as:

- **Monitoring the condition of workplaces and labor protection:** Monitoring working conditions, temperature, humidity and lighting to ensure comfortable and safe working conditions. Monitoring the operation of dangerous equipment and timely warning of potential threats.

- **Environmental Monitoring:** Track emissions, noise and other environmental indicators to meet regulatory requirements and reduce negative environmental impacts.

- **Industrial and home automation:** Flexible system configurability allows you to control a variety of equipment from different manufacturers.

- **Automatic control of HVAC systems** (heating, ventilation, air conditioning) as part of dispatch systems
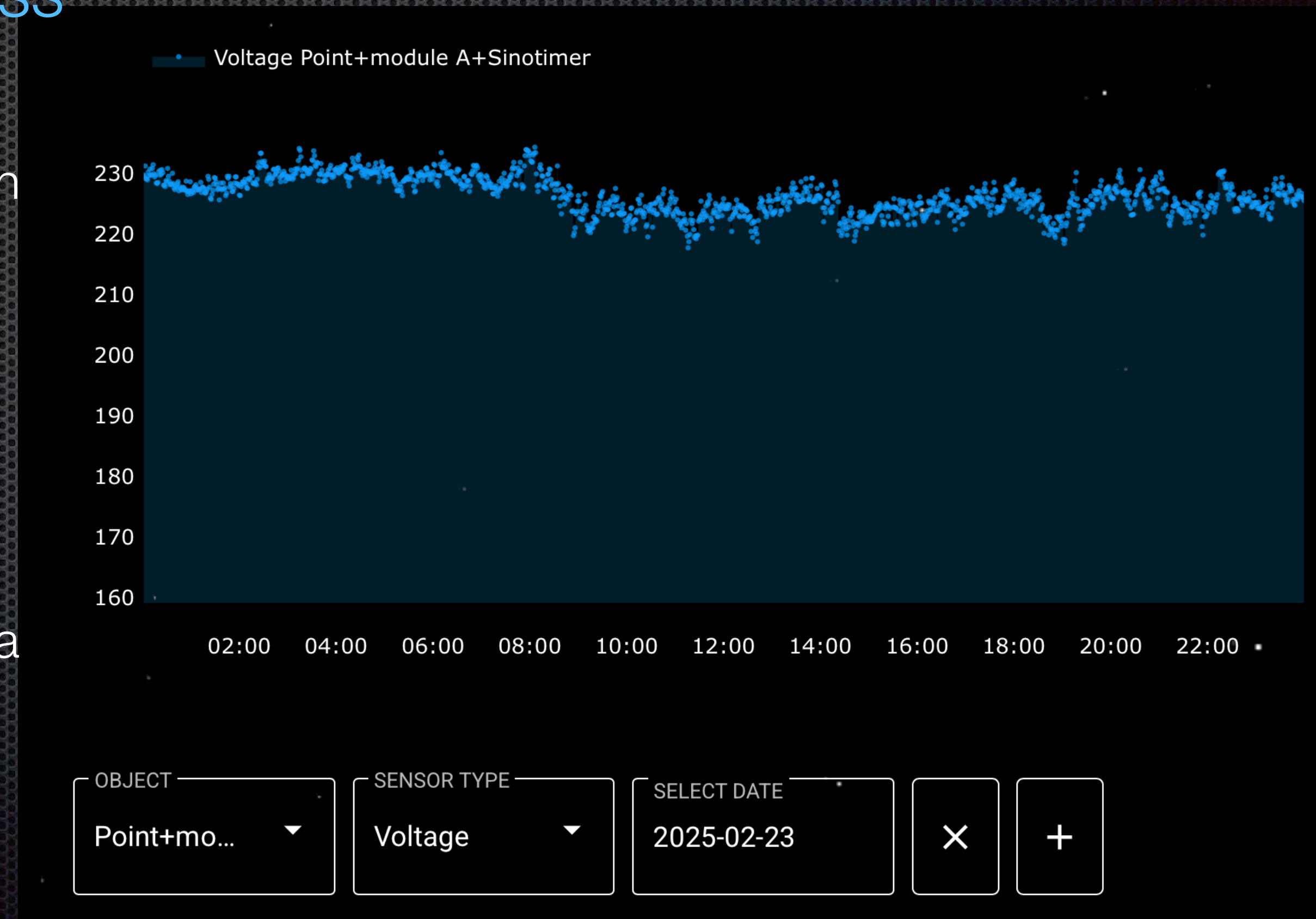
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DVC Head PRO controller

Works as part of the **DVC Cloud** cloud complex for monitoring and controlling industrial equipment.

Intuitive interface and remote control access

- The main area of application of this controller is working in conjunction with the DVC CLOUD

- You get a convenient interface, work with maps, connect dozens of your objects into one account, delegate powers to assistants, distribute powers between them, and much more.

- All information, management, event log, are available via a web interface from anywhere in the world

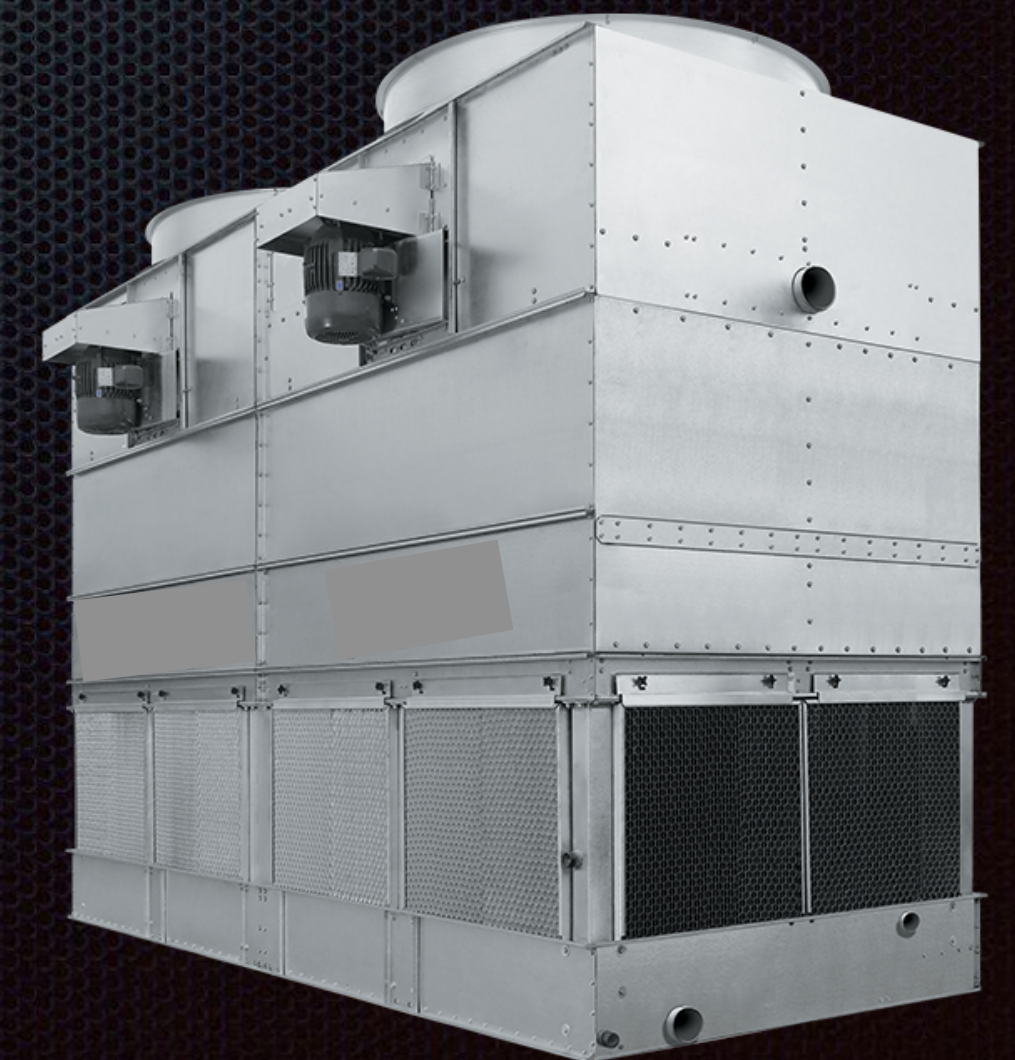- Important notifications are archived in your email

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DVC Head PRO controller

How does this work?

DVC Cloud

DVC Head PRO

- **DVC Head PRO** sends data from sensors and other parameters of your facility every second to the DVC CLOUD

- We use **DVC Head** family controllers

- Algorithms, according to the loaded configuration, generate control commands for actuators, or manual control commands from mobile devices are sent to the **DVC Head PRO** controller, and then to peripheral controllers, or even directly control the equipment.

- Cloud platform visualizes data (dashboard or graphics), user makes decisions

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DVC Head PRO controller

Flexibility and scalability

- The **DVC Head PRO** controller connects to your site and the **DVC Cloud**, making it easy to add new sites and devices

- The connection is made after configuring the system. Due to the fact that the tasks assigned to **DVC Head PRO** are usually voluminous, a stage of designing and configuring the system is necessary

- Support for remote update and configuration for the **DVC Head PRO** family of controllers makes the system flexible and even more advanced.

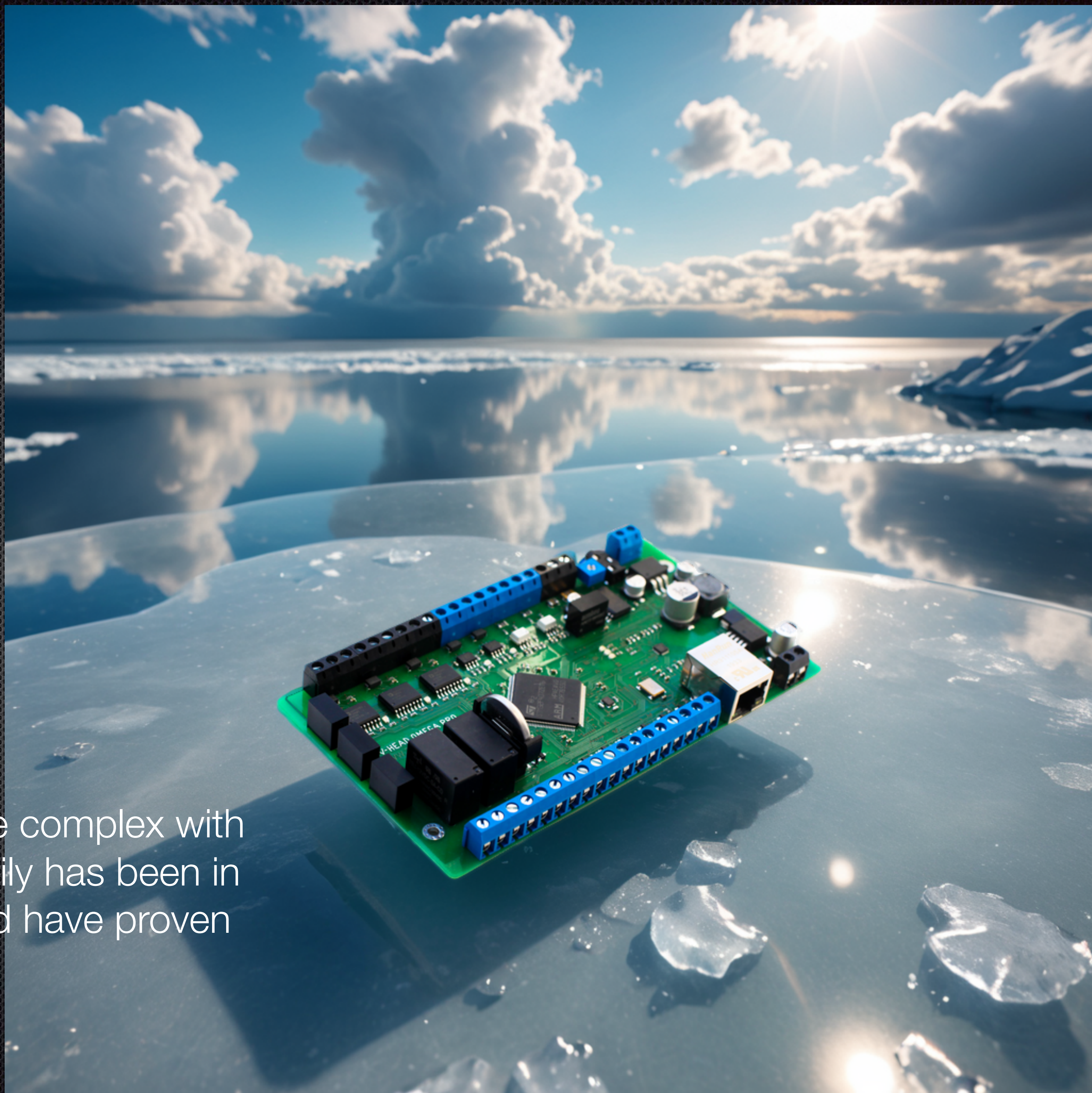- Staff training usually takes several days.

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DVC Head PRO controller

Reliability

- The **DVC CLOUD** hardware and software complex with controllers from the **DVC Head PRO** family has been in operation and tested for several years and have proven themselves to be reliable devices.

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DVC Head PRO controller

Financial model: transparency and convenience

- Payback of the solution is from 1 to 6 months due to reduced maintenance costs and energy consumption

- Flexible payment system:

- Purchase with technical support with the opportunity to test the equipment for a month

- SaaS model (subscription) with the ability to scale without initial investment

- Pilot project – an opportunity to test the system at one site before large-scale implementation

DVC Technologies

DVC Head PRO controller

Using **DVC Head PRO!**
will give you something you didn't even know you
needed!

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