

Clunid DCP-1 Fire Detection and Suppression Control Panel

Safer. Easier. Universal.



Clunid - the heart of modern fire protection



The information from all fire detection and monitoring elements converges in modern fire detection and suppression control panels. They receive events, evaluate them, provide fire alarms and important status information, automatically control suppression systems and other fire case-dependent actions, and initiate tests of critical functions. Thus they form the heart of modern fire protection systems.

The Clunid DCP-1 is a modular fire detection and suppression control panel that can take over all relevant monitoring and control functions in fire protection systems – precisely tuned and compiled to meet specific customer and project requirements. Its possible applications are almost unlimited. In addition, the unique Clunid control panel generation is characterized by a particularly high level of operational safety and very simple operation.



Simple operation

With the **full-color 7" touch display**, operators maintain an overview even in stressful situations, such as a fire.

- The user guidance is intuitive thanks to the familiar tile design.
- Operating status are visualized by the color of the display and messages are shown in full text.
- Consistent self-explanatory icons with binding instructions for action prevent errors.

- Flat menu structures allow direct and fast navigation for all events.
- The menu navigation is tailored to the different users according to the authorizations granted respectively in each case.

The Clunid DCP-1 can be equipped with zone control panels with which operating procedures and indications can be carried out conveniently via a large number of freely configurable buttons and LEDs.

Full-color 7" touch display

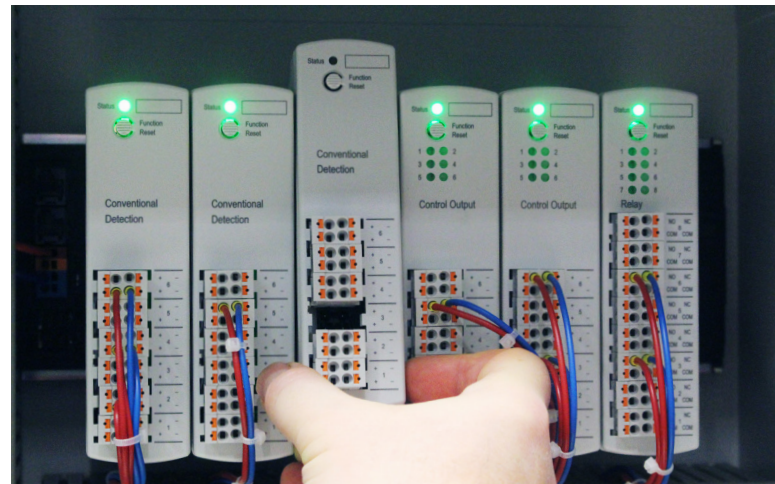




High operational safety

The new and modern control panel technology of the Clunid DCP-1 stands for highest availability and operational safety:

- **TWIN PROCESSING:** The processors are always redundant, not only on the central card, but also in the function modules and zone control panels. This minimizes the risk of failures.
- **Automatic plausibility checks:** The integrated LogicManager prevents user errors already during configuration. A later occurrence of corresponding malfunctions will thus be avoided.
- **HOT SWAP module exchange:** Individual function modules can be exchanged without taking the control panel out of operation and causing downtimes.
- **No risk with updates:** Updates and parameterizations are carried out during operation without necessary shutdowns.
- **Large event memory:** The generously dimensioned event and history memory helps to comprehensively trace faults and quickly eliminate the causes.



HOT SWAP module exchange



Function module with redundant processor



Universal application

Supported by its powerful computer performance, the possible applications of the Clunid DCP-1 are almost unlimited:

- The Clunid DCP-1 offers the flexibility of a **programmable logic controller (PLC)** and thus also enables very complex controls, for example for multi-zone suppression systems.
- Thanks to the **powerful network technology**, not only complex controls but also very extensive systems can be realized.
- With the **Reflex module**, fast evaluation of fire detector signals and instantaneous suppression system actuation are also possible, as required for certain fire risks and suppression system types.
- Modules are available for both **conventional lines** and **addressable loops**.
- Power supply units with wide-voltage input, the DC/DC converter for controlling horns and solenoid valves without sufficient wide-voltage input as well as VdS, FM and other approvals make the Clunid DCP-1 **internationally applicable**.

Modular design



All modules have the same width and can be used in any slot in the control panel, regardless of the module type.

In its standard configuration, the Clunid DCP-1 is equipped with a touch display including collective indications, a redundant central card, battery supply and a power supply unit. It is prepared for up to 72 function modules and 27 zone control panels.

Central card

Fast reactions and strong computer performance characterize the central card technology. The central card is always equipped with redundant processors and thus reduces the probability of failure to a minimum.

Function modules

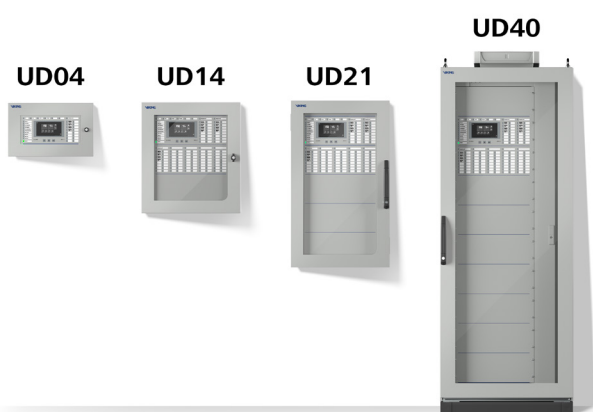
All function modules are equipped with a redundant processor as well. They are available to suit the various applications and requirements – from input modules for conventional lines or addressable loops to output modules such as control groups or relays and communication modules such as fire brigade peripherals or networks.

The **Reflex module** is available for fast evaluation of fire detector signals and instantaneous suppression system actuation.

The **voltage output and control group modules** are equipped with electronic fuses and are therefore also UL- and FM-compliant. The control group module can also be used to operate impulse solenoid valves and components with a high continuous current demand.

Compared to conventional relay cards, the **PLC module** can control a multiple of relays, whereby different switching voltages are possible.

The well designed module concept offers a number of advantages for project planning and service. All modules have the same width and can be used in any slot in the control panel, regardless of the module type. This means that the space in the control panel enclosure can be optimally utilized.



Power supply unit

The power supply units with extended voltage range input cover various power supply voltages, for international use of the Clunid DCP-1.

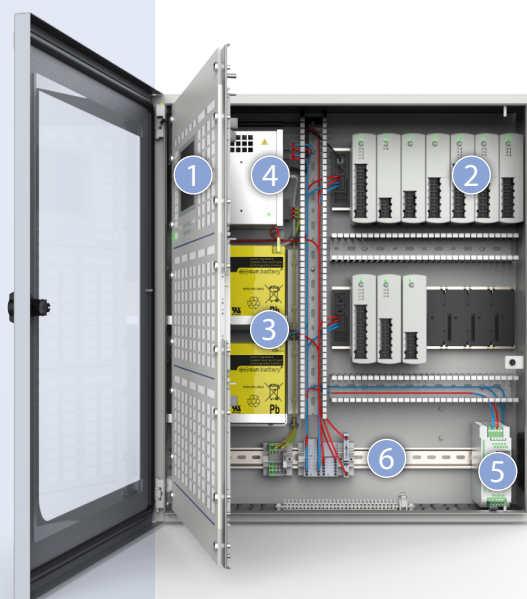
DC/DC converter

A DC/DC converter can be optionally integrated to stabilize the output voltage of control groups and thus ensure a constant output voltage even in battery operation or during temperature fluctuations. This is often required for standard components such as horns or solenoid valves without adequate extended voltage range input.

Enclosure sizes

All components can find place in the four standard enclosure sizes 04UD, 14UD, 21UD and 40UD. These can be individually extended and offer sufficient scope for a configuration according to the needs.

- ① Central card / Zone operating panels
- ② Function modules
- ③ Batteries
- ④ Power supply unit
- ⑤ DC/DC converter
- ⑥ Power supply input



Configuration software and service tools



Strong support for designers and technicians to maximize operational safety.

LogicManager

The LogicManager is the configuration software for the Clunid DCP-1. As with programmable logic controllers (PLCs), it is structured according to a building-block concept and consistently separates logic and hardware. For example, it is possible to switch back and forth between loop and conventional functions at any time without having to start the configuration again. This offers flexibility and reduces the project time.

Through automatic plausibility checks, the LogicManager prevents user errors already during configuration. In addition, it has a fully implemented redo and undo concept as well as numerous logic blocks with further features.

The LogicManager's menu navigation supports the user during configuration according to the selected standard (for example EN or FM). In addition, standardized and pre-configured function blocks are available in LogicManager for the standard-compliant control of suppression systems.

Legally required documentation also becomes easier. The LogicManager automatically generates clear system documentation. This greatly simplifies the adaptation of the documentation in case of configuration changes or changes in use.



Clunid DCP-1 LogicManager



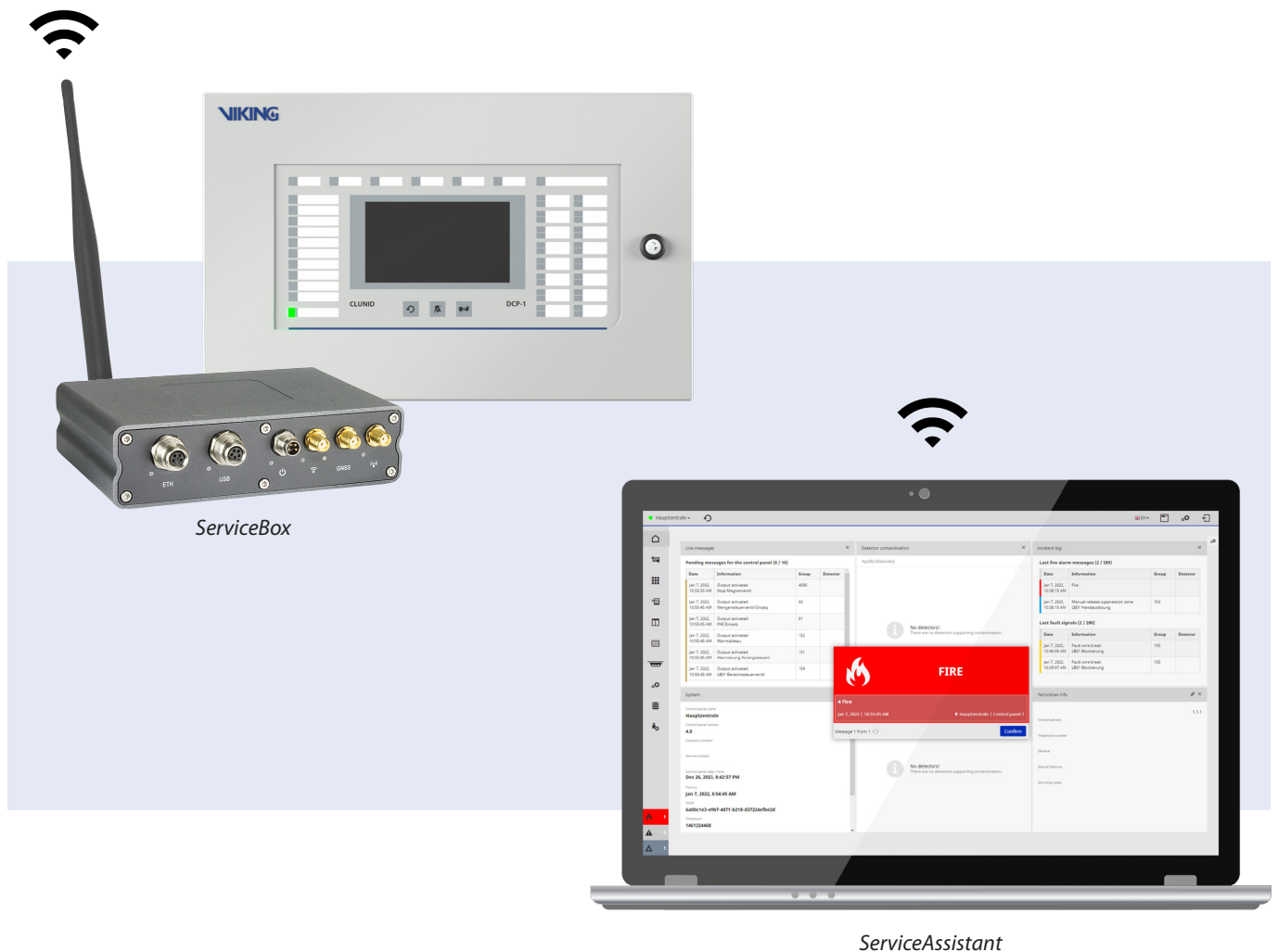
ServiceAssistant

To support maintenance work on the Clunid DCP-1 on site, fitters and technicians can use the ServiceAssistant to read out the actual status of the control panel as well as event and history messages at any time during operation. Information and images can be easily stored and retrieved later for follow-up work. In addition, various parameters can be directly adapted to the installation conditions on site.

Documentation of activities during commissioning, maintenance, inspection or troubleshooting is also done in the ServiceAssistant. A structured concept grants different authorizations depending on the technicians' level of knowledge and experience.

ServiceBox

The ServiceBox is connected to the Clunid DCP-1 via a USB interface. The technician can carry out uploads and downloads of LogicManager's configuration as well as service activities via the ServiceBox, wirelessly via a Wi-Fi connection. A system update of all control panel components is thus done via one interface, so that this process does not require any special knowledge or tools. The licensing concept ensures that only authorized persons work on the control panel.



One control panel for all cases



The Clunid DCP-1 can be precisely tuned to specific customer and project requirements.

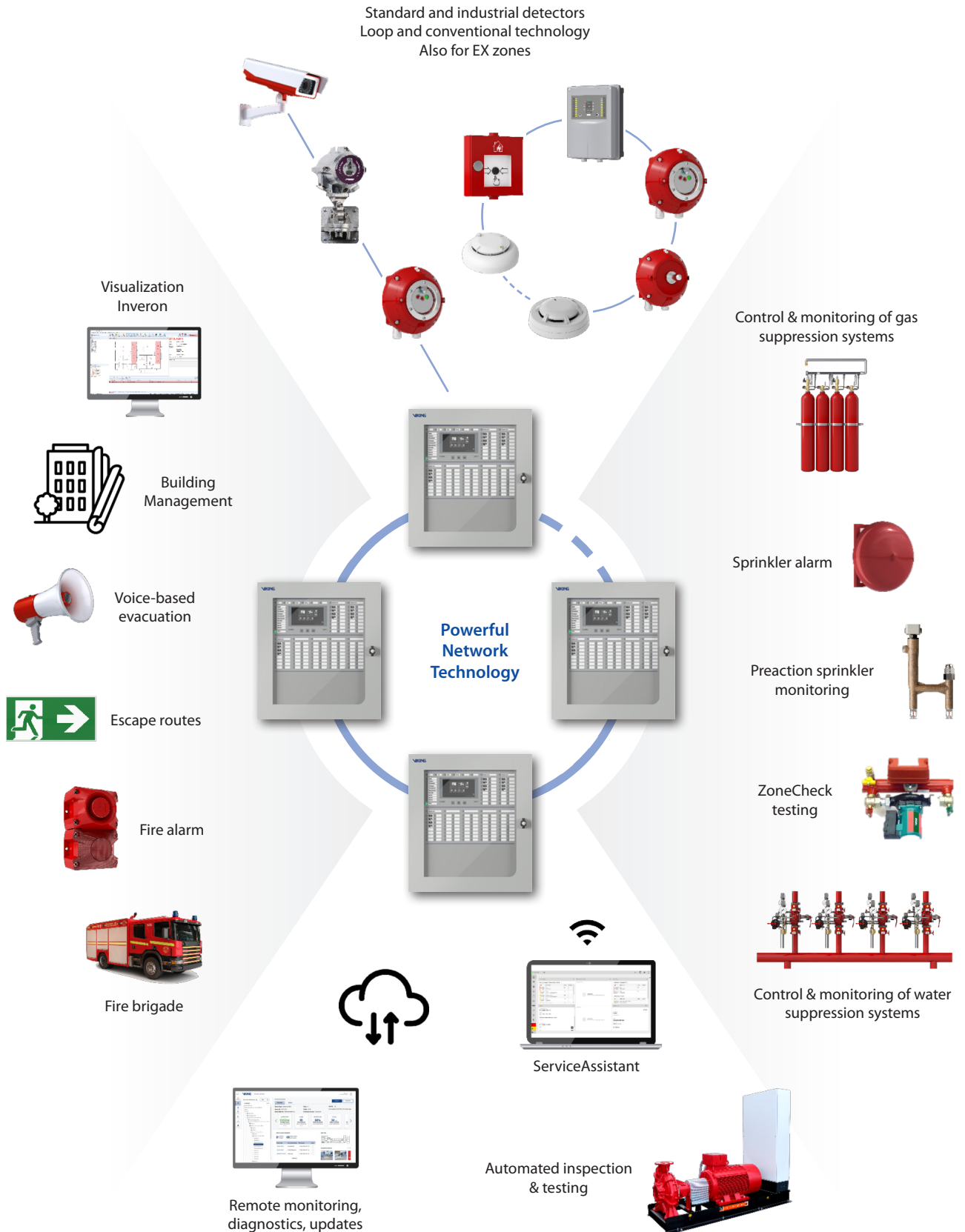
Thanks to its powerful processor performance in combination with the diverse extension possibilities with function modules and zone control panels as well as the flexibility of a programmable logic controller (PLC), there are almost no limits to the use of the Clunid DCP-1. It takes over a wide variety of monitoring and control functions in fire protection systems – even with high complexity and in extensive systems.

The Clunid DCP-1 is used, among other things:

- As a pure fire detection control panel for alarm
- As a combined fire detection and suppression control panel or pure suppression control panel for gas suppression systems (single-zone and multi-zone systems)
- As a monitoring panel for water suppression systems
- For the control of deluge valves with and without external reset
- For control and monitoring of pre-action dry alarm valves
- For monitoring of preaction sprinklers

- For control and monitoring of water mist suppression systems
- For control and monitoring of foam suppression systems
- For fast evaluation of fire detector signals and instantaneous suppression system actuation
- For providing important status information, for example to an Inveron hazard management system
- For monitoring and control of flow switch test units
- To initiate further tests of critical functions
- To control further fire case-dependent actions
- To control and monitor hydrant systems in loop technology

The Clunid DCP-1 can be precisely tuned to specific customer and project requirements not only for new installations. Its modular design and flexible configuration options also offer enormous advantages for later modifications or extensions.



Note: Certain options will only be available at a later date.

Applications and approvals



Due to its high protection class, the Clunid DCP-1 is well-suited for industrial environments.

Whether in a complex multi-zone suppression system, in sprinkler systems with a large number of flow switches to be tested regularly or in systems for instantaneous fire suppression – the Clunid DCP-1 is the perfect choice when simple fire detection and suppression control panels reach their limits. Due to its high protection class, the Clunid DCP-1 is also well-suited for industrial environments.

Typical areas of application are:

- Power plants
- Automotive plants
- Data centers
- Chemical industry
- Food industry
- Recycling
- Production

The Clunid DCP-1 fire detection and suppression control panel is CE-certified and approved by VdS Schadenverhütung and FM Global. Numerous regional and local approvals are in preparation.





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For further information, please contact your local Viking sales office or refer to the technical documentation.
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