Fire detection and suppression control panels
DCP-1

Control panel DCP-1 04UD

Application
The latest control panel technology for use as a combined fire detection and extinguishing control panel in single and multizone extinguishing systems. Modular design and factory-installed configuration is carried out according to the customers project requirements.

Technical specifications

Mains voltage	Power supply unit AkkuTec: 2403 VdS 2403 OF-864 93.5 - 264.5 V AC
Mains frequency	47 Hz - 63 Hz
Operating voltage nom.	24 V DC
Operating voltage range central card	19 V - 29 V DC
Quiescent current (without modules and zone control panel)	max. 310 mA
Battery	2 x 12 V / max. 18 Ah
Number of function modules	max. 7
Ambient temperature (operation)	-5 °C to +50 °C (+23 °F to +122 °F)
Storage temperature (without batteries)	-30 °C to +80 °C (-22 °F to +176 °F)
Relative humidity	max. 95 % no condensation
IP rating	IP 54
Enclosure	Sheet steel RAL 7035 light grey or RAL 3000 red
Function module mounting rail	max. 1 pc. 105 x 310 mm (WxL) 4.13 x 12.2 inch (WxL) max. 7 function modules/mounting rail
Mounting rail	max. 1 pc. 35 x 500 mm (WxL) 1.38 x 19.69 inch (WxL) 400 mm usable space next to the voltage distribution block
Dimensions	526 x 330 x 276 mm (WxHxD) 20.71 x 12.99 x 10.9 inch (WxHxD)
Weight	approx. 9 kg (19.8 lbs) (without modules)
Specification	EN54-2, EN54-4, EN12094-1
Mounting	wall-mounted installation

Fire detection and suppression control panel DCP-1 in wall-mounted housing in modern industrial design. Optimum control panel equipment due to modular design. Intuitive operator guidance via full-colour 7” touch display with 17 freely configurable LED collective displays. The configuration of the control panel is done via the configuration software “LogicManager” with an intuitive and user-friendly interface. Commissioning, maintenance and service work is carried out via the ServiceAssistant. For both applications, the interface between the control panel and the PC, tablet or smartphone is realized via the Clunid ServiceBox.

Product features
- Highly available complete system through redundant central card, redundant function modules and redundant zone control panels
- Function modules can be replaced during operation thanks to hot-plug technology
- Optional 1 Zone control panel for displaying and operating the extinguishing areas or as individual detector group display
- Installation of up to 7 function modules via module Bus head or module Bus extension on function module mounting rail
- Simple labeling of the zone control panel via insert sheets

Included in delivery
Variable. The configuration of the control panel is done via the DCP-1 Configurator.

Note
The number of modules Fire brigade periphery or Fire brigade periphery ADP is limited to a total of 1 per control panel.

Approvals / marking
VdS CE FM APPROVED

Fire detection and suppression control panels
DCP-1

Control panel DCP-1 14UD

Fire detection and suppression control panel DCP-1 in a wall-mounted 19” housing in modern industrial design. Optimum control panel equipment due to modular design. Intuitive operator guidance via full-colour 7” touch display with 17 freely configurable LED collective displays. The configuration of the control panel is done via the configuration software “LogicManager” with an intuitive and user-friendly interface. Commissioning, maintenance and service work is carried out via the ServiceAssistant. For both applications, the interface between the control panel and the PC, tablet or smartphone is realized via the Clunid ServiceBox.

Technical specifications

Mains voltage	Power supply unit AkkuTec: 2403 VdS, 2403 OF-864, 2405 OF-864 93.5 V - 264.5 V AC 2412 VdS, 2409 OF-864 195.5 V - 264.5 V AC
Mains frequency	47 Hz - 63 Hz
Operating voltage nom.	24 V DC
Operating voltage range	19 V - 29 V DC
Quiescent current (without function modules and zone control panel)	max. 310 mA DC
Battery (2 x 12 V)	Power supply unit AkkuTec: 2403 VdS 18 Ah / 26 Ah 2412 VdS 45 Ah 2403 OF-864 18 Ah / 26 Ah 2405 OF-864 18 Ah / 26 Ah / 45 Ah 2409 OF-864 45 Ah
Number of function modules	max. 14
Ambient temperature (operation)	-5 °C to +50 °C (+23 °F to +122 °F)
Storage temperature (without batteries)	-30 °C to +80 °C (-22 °F to +176 °F)
Relative humidity	max. 95 %, no condensation
IP rating	IP 54 (closed housing front door) IP 31 (open housing front door)
Enclosure	Sheet steel RAL 7035 light grey or RAL 3000 red
Function module mounting rail	max. 2 pc. 105 x 310 mm (WxL) 4.13 x 12.2 inch (WxL) max. 7 function modules/mounting rail
Mounting rail	max. 1 pc. 35 x 360 mm (WxL) 1.38 x 14.17 inch (WxL) 270 mm (10.63 inch) usable space next to the voltage distribution block
Dimensions	600 x 671 x 226 mm (WxHxD) 23.62 x 26.42 x 8.9 inch (WxHxD)
Weight	approx. 15 kg (33.07 lbs) (without modules and power supply unit)
Specification	EN54-2, EN54-4, EN12094-1
Mounting	wall-mounted installation

Application
The latest control panel technology for use as a combined fire detection and suppression control panel in single and multizone extinguishing systems. Modular design and factory configuration are carried out according to the individual requirements of the customers project.

Product features
- Highly available complete system through redundant central card, redundant function modules and redundant zone control panels
- Function modules can be replaced during operation thanks to hot-plug technology
- Max. 12 Zone control panels for displaying and operating the extinguishing areas or as individual detector group display
- Installation of up to 14 function modules via module Bus head or module Bus extension on function module mounting rail
- Installation of a DC/DC converter is possible to stabilize the output voltage of the control and voltage outputs
- Simple labeling of the zone control panel via an insert sheet

Included in delivery
Variable. The configuration of the control panel is done via the DCP-1 Configurator.

Note
The number of modules Fire brigade periphery or Fire brigade periphery ADP is limited to a total of 1 per control panel. Max. 2 modules Zone control panel on the front plate of the control panel and up to 10 more modules Zone control panel via Front plate zone control panel. The control unit may be operated with a maximum current of 8 A at the specified ambient temperature.

Approvals / marking
VdS CE FM APPROVED

Fire detection and suppression control panels
DCP-1

Control panel DCP-1 21UD

Fire detection and suppression control panel DCP-1 in a wall-mounted 19” housing in modern industrial design. Optimum control panel equipment due to modular design. Intuitive operator guidance via full-colour 7” touch display with 17 freely configurable LED collective displays. The configuration of the control panel is done via the configuration software “LogicManager” with an intuitive and user-friendly interface. Commissioning, maintenance and service work is carried out via the ServiceAssistant. For both applications, the interface between the control panel and the PC, tablet or smartphone is realized via the Clunid ServiceBox.

Technical specifications

Mains voltage	Power supply unit AkkuTec: 2405 OF-864 93.5 - 264.5 V AC 2412 VdS, 2409 OF-864 195.5 V - 264.5 V AC
Mains frequency	47 Hz - 63 Hz
Operating voltage nom.	24 V DC
Operating voltage range central card	19 V - 29 V DC
Battery	Power supply unit AkkuTec: 2412 VdS 45 Ah / 65 Ah 2405 OF-864 26 Ah / 45 Ah 2409 OF-864 45 Ah / 65 Ah
Quiescent current (without function modules and zone control panel)	max. 310 mA
Number of function modules	max. 27 (26 Ah / 45 Ah batteries) max. 18 (65 Ah batteries)
Ambient temperature (operation)	-5 °C to +45 °C (+23 °F to +113 °F)
Storage temperature (without batteries)	-30 °C to +80 °C (-22 °F to +176 °F)
Relative humidity	max. 95 %, no condensation
IP rating	IP 54 (closed housing front door) IP 31 (open housing front door)
Enclosure	Sheet steel RAL 7035 light grey or RAL 3000 red
Function module mounting rail	max. 3 pc. 105 x 390 mm (WxL) 4.13 x 15.35 inch (WxL) max. 9 function modules/mounting rail
Mounting rail	max. 1 pc. 35 x 390 mm (WxL) 1.38 x 15.35 inch (WxL) 300 mm (11.81 inch) usable space next to the voltage distribution block
Dimensions	600 x 916 x 373 mm (WxHxD) 23.62 x 30.06 x 14.69 inch (WxHxD)
Weight	approx. 70 kg (154.32 lbs) (without modules)
Specification	EN54-2, EN54-4, EN12094-1
Mounting	wall-mounted installation

Application
The latest control panel technology for use as a combined fire detection and suppression control panel in single and multizone extinguishing systems. Modular design and factory configuration are carried out according to the individualre-quirements of the customers project.

Product features
- Highly available complete system through redundant central card, redundant function modules and redundant zone control panels
- Function modules can be replaced during operation thanks to hot-plug technology
- Max. 17 Zone control panels for displaying and operating the extinguishing areas or as individual detector group display
- Installation of up to 27 function modules via module Bus head or module Bus extension on function module mounting rail
- Installation of a DC/DC converter is possible to stabilize the output voltage of the control and voltage outputs
- Simple labeling of the zone control panel via insert sheets

Included in delivery
Variable. The configuration of the fire detection and suppression control panel is done via the DCP-1 Configurator.

Note
The number of modules Fire brigade periphery or Fire brigade periphery ADP is limited to a total of 1 per control panel. Max. 2 modules Zone control panel on the front plate of the control panel and up to 15 more modules Zone control panel via Front plate zone control panel.

Approvals / marking
VdS CE FM APPROVED

Fire detection and suppression control panels
DCP-1

Control panel DCP-1 40UD

Fire detection and suppression control panel Clunid DCP-1 in a wall-mounted 19” housing in modern industrial design. Optimum control panel equipment due to modular design. Intuitive operator guidance via full-colour 7” touch display with 17 freely configurable LED collective displays. The configuration of the control panel is done via the configuration software “LogicManager” with an intuitive and user-friendly interface. Commissioning, maintenance and service work is carried out via the ServiceAssistant. For both applications, the interface between the control panel and the PC, tablet or smartphone is realized via the Clunid ServiceBox.

Technical specifications

Mains voltage	Power supply unit AkkuTec: 2412 VdS 195.5 --264.5 V AC 2405 OF-864 93.5 - 264.5 V AC 2409 Of-864 195.5 - 264.5 V AC
Mains frequency	47 Hz - 63 Hz
Operating voltage nom.	24 V DC
Operating voltage range central card	19 V - 29 V DC
Quiescent current (without modules and zone control panel)	max. 310 mA DC
Battery (2 x 12 V)	Power supply unit AkkuTec: 2412 VdS 45 / 65 / 85 /100 Ah 2405 OF-864 45 Ah 2409 OF-864 45 / 65 / 85 / 100 Ah
Number of function modules	max. 72
Ambient temperature (operation)	-5 °C to +50 °C (+23 °F to +122 °F)
Storage temperature (without batteries)	-30 °C to +80 °C (-22 °F to +176 °F)
Relative humidity	max. 95 % no condensation
IP rating (EN60529)	IP 54 (closed housing front door) IP 31 (open housing front door)
Enclosure	Sheet steel 12U RAL 7035 light grey or RAL 3000 red
Function module mounting rail	max. 6 pcs. 105 x 510 mm (WxL) 4.13 x 20.08 inch (WxL) max. 12 function modules/mounting rail
Mounting rail	max. 1 pc. 35 x 515 mm (WxL) 1.38 x 20.28 inch (WxL) 360 mm (14.17 inch) usable space next to the voltage distribution block
Dimensions (incl. base 100 mm and passive fan)	800 x 2210 x 600 mm (WxHxD) 31.50 x 87.01 x 23.62 inch (WxHxD)
Weight	approx. 200 kg (440.9 lbs) (without modules)
Specification	EN54-2, EN54-4, EN12094-1
Mounting	Stand alone cabinet

Application
Base unit with the latest control panel technology for use as a combined fire detection and suppression control panel in single and multizone extinguishing systems in medium-scale and large projects.

Product features
- Highly available complete system through redundant central card, redundant function modules and redundant zone control panel
- Function modules can be replaced during operation thanks to hot-plug technology
- Max. 27 Zone control panels for displaying and operating the extinguishing areas or as individual detector group display
- Individual installation of up to 72 function modules via module Bus head or module Bus extension on function module mounting rail
- Installation of a DC/DC converter is possible to stabilize the output voltage of the control and voltage outputs
- Simple labeling of the zone control panel via insert sheets

Included in delivery
Variable. The configuration of the fire detection and suppression control panel is done via the DCP-1 Configurator.

Note
The number of modules Fire brigade periphery or Fire brigade periphery ADP is limited to a total of 1 per control panel. Max. 2 modules Zone control panel on the front plate of the control panel and up to 25 modules Zone control panel via Front plate zone control panel. It is possible to connect up to 2 AkkuTec 2412 VdS, AkkuTec 2405 OF-864 or AkkuTec 2409 OF-864 power supplies in parallel.

Approvals / marking
VdS CE FM APPROVED

Fire detection and suppression control panels

Modules

DCP-1 Bus Head Module

Order no.: 930709

Mounting rail module for use in all design variants of the DCP-1 series. The module contains all connections for data communication and power supply of a module series with up to 12 function modules. Power can be supplied directly from the power supply unit of the panel (floating) or, if required, additionally via a DC/DC converter (regulated).
Input and output socket available for data communication. The output socket can be used for a connection of another module series.

Product features

- Input and output socket for internal data connection
- 2 separate inputs for power supply of the module series (floating, regulated)
- 2 slots for function modules
- 1 slot for expansion with module Bus extension

Technical specifications

Operating voltage floating	19 V - 29 V DC
Operating voltage regulated (optional)	26.2 V - 26.4 V DC
Operating current (no module operating)	7 mA floating 0.5 mA regulated
Current consumption	max. 12 A
Current consumption per module slot	max. 6 A
Voltage supply	Connection block, 4-pin 2 connections for floating 2 connections for regulated
Communication CAN	2 modular plugs RJ12 6P6C, staggered screening
Number of function module slots	2
Connectivity of module Bus extension	1
Connection cross section	0.2 - 4 mm², rigid 0.5 - 2.5 mm², flexible
Ambient temperature (operation)	-5 °C to +60 °C (23 °F to 140 °F)
Storage temperature	-30 °C to +80 °C (-22 °F to 176 °F)
Relative humidity	max. 95 % no condensation
Installation position	flat
Mounting	Mounting rail 105 mm
Weight	approx. 105 g (0.23 lbs)
Dimensions	109.8 x 96.4 x 27.2 mm (WxHxD) 4.4 x 4.2 x 0.8 inch (WxHxD)
Part no. (not available for order)	930708

Application

The module DCP-1 Bus head is the first left-aligned module on each mounting rail. It provides the power supply as well as the data- communication channel for up to 12 function modules respectively function modul slots. Two function modules can be plugged directly onto the module DCP-1 Bus head. Additional function module slots are created by adding DCP-1 Bus extension modules, part no. 930711.

Included in delivery

Module completely assembled and ready for installation.

Not included in delivery

Cable loom Clunid 14-40HE BK-BK 933227
Single wires for power supply

Note

Only one module Bus head may be used per one function module mounting rail.

Approvals / marking

See panels

Fire detection and suppression control panels

Modules

DCP-1 Bus Extension Module

Order no.: 930711

Mounting rail module for use in all design variants of the Clunid DCP-1 series. Extends a module series by one additional function module slot.

Product features

- 1 slot for functional module
- 1 slot for connection to present module series
- 1 slot for expansion with an additional module Bus extension

Application

The module DCP-1 Bus extension is used to extend function modules respectively function module slots. The module is either connected on the right side to a module DCP-1 Bus head, part no. 930709, or to another module DCP-1 Bus extension. Thus, a function module mounting rail can be extended to up to 12 slots.

Technical specifications

Operating voltage, floating	19 V - 29 V DC
Operating voltage, regulated (optional)	26.2 - 26.4 V DC
Operating current (no module operating)	1 mA floatend 0 mA regulated
Number of function module slots	1
Current consumption per module slot	max. 6 A
Voltage supply	via module series
Connectivity of module Bus extension	1
Ambient temperature operation	-5 °C to +60 °C (+23 °F to 140° F)
Storage temperature	-30 °C to +80 ° C (-22 °F to +176 °F)
Relative humidity	max. 95 % no condensation
Installation position	flat
Mounting	Mounting rail 105 mm
Weight	appr. 41 g (0.09 lbs)
Dimensions	39.8 x 96.4 x 19.3 mm (LxWxH 1.5 x 4.2 x 0.8 inch (LxWxH)
Part no. (not available for order)	930710

Included in delivery

Module completely assembled and ready for installation.

Approvals / marking

See panels

Fire detection and suppression control panels

Modules

DCP-1 Conventional Detector Module

Product features

- For conventional components with a supply voltage of 10 V - 12 V DC
- 6 conventional inputs
- Module redundancy through second processor core
- Conventional inputs usable for several extinguishing zones

Techical specifications

Operating voltage	19 V - 29 V DC
Current consumption (module in standby, no line under load)	max. 58 mA
Line voltage	10 V / 12 V DC
Line current per group	max. 120 mA
Terminating resistor	1.8 kΩ
Number of detector groups	6, quiescent current monitored
Number of detectors per group	automatic detectors 32 pcs. non automatic detectors 10 pcs.
Sprinkler monitoring panel (CEA4001) Malfunction indicators:	with single indication 60 pcs. without single indication 15 pcs.
Connectivity	Class B
Connection cross section	0.2-1.5 mm², rigid 0.2-2.5 mm², flexible
Ambient temperature (operation)	-5 °C to +60 °C (+23 °F to 140 °F)
Storage temperature	-30 °C to +80 °C (-22 °F to +176 °F)
Relative humidity	max. 95 % no condensation
IP rating (EN 60529)	IP 20
Enclosure	Polycarbonate, grey
Installation position	vertical
Mounting	attachable onto module Bus head or module Bus extension
Number of female connectors	max. 6
Weight	174 g (0.38 lbs)
Dimensions	39.7 x 147 x 102 mm (WxHxD) 1.6 x 5.8 x 4.0 inch (WxHxD)
Part no (not available for order).	930716

Order no.: 930717

Function module for use in all design variants of the DCP-1 series. The module contains 6 quiescent current monitored detector groups for the connection of conventional detectors or switching contacts. The integrated redundant design allows the management of several extinguishing zones via one module and also ensures high reliability of the module. The alarm of a detector is reported by increasing the current. The conventional line is monitored for wire breakage and short circuit.

- Operation of detectors in alarm dependency type B possible (dual group or dual detector dependency) Monitoring of the conventional lines for wire breakage and short circuit (incl. creeping wire breakage and creeping short circiut)
- Detection of alarm or fault from one or more detectors
- Adjustable blind time (1 to 20 seconds)
- Integrated module status LED on the front of the module for displaying the current module status
- Button on the front of the module for initiating module-specific functions

Application

Connection of various types of conventional detectors in standard or industrial design. System monitoring is carried out by connecting monitoring switches with potential-free contacts. The module DCP-1 Conventional detector is installed onto a module DCP-1 Bus head or a module Bus extension. The power supply and the data connection to the central card are realized via these two modules.

Included in delivery

Module assembled and ready for installation.

Not included in delivery

Module DCP-1 Bus head	930709
Module DCP-1 Bus extension	930711
Female header HSCP-SP 2,5-1U/4 (50 pcs.) (Connection plug for field cables)	924202

Note

When using more than 2 function modules on a function module mounting rail, a module DCP-1 Bus extension, part no. 930771, is necessary for each additional function module.

Approvals / marking

See panels

Fire detection and suppression control panels

Modules

DCP-1 Loop AP Module

Order no: 930721

Function module for use in all design variants of the Clunid DCP-1 series. The module contains 2 detector loops for the connection of a maximum of 126 addressable components each. Instead of a loop, alternatively 2 spurs can be connected. Loop components may be addressable fire detectors, alarm devices, input/output modules, control modules for notification devices and conventional modules for operating standard conventional detectors on the loop. The integrated redundancy enables the management of several extinguishing zones via one module and also ensures high reliability of the module.

Product features

- For the interface connection of analog addressable detectors, modules and notification devices to the communication protocol Loop AP - XP95 / Discovery
- Module redundancy through second processor core
- A high loop current allows the operation of many modules, notification devices and detectors on a single loop
- Connectivity of Soteria devices
- Integrated module status LED at the front of the module for displaying the current module status
- Button at the front of the module for initiating module-specific functions

Technical specifications

Operating voltage (module)	19 V - 29 V DC
Current consumption (module in standby, no loop activated)	30 mA
Loop current	max. 400 mA
Loop voltage	max. 27 V DC
Number of loops	2
Number of spurs	2/4
Number of components per loop	126
Protocols	XP95, Discovery
Connectivity (FM)	Class A
Connection cross section	0.2 - 1.5 mm², rigid 0.2 - 2.5 mm², flexible
Ambient temperature operation	-5 °C to +60 °C (+23 °F to +140 °F)
Ambient temperature storage	-30 °C to +80°C (-22 °F to +176 °F)
Relative humidity	max. 95 % no condensation
IP rating (EN 60529)	IP 20
Enclosure	Polycarbonate, grey
Installation position	vertical
Mounting	attachable onto module Bus head or module Bus extension
Number of female connectors	max. 4
Weight	196 g (0.43 lbs)
Dimensions	39.7 x 147 x 102 mm (WxHxD) 1.6 x 5.8 x 4.0 inch (WxHxD)
Cable length in total	max. 2000 m per loop
Part no. (not available for order)	930720

Application

For monitoring with automatic or non-automatic detectors and alarming with optical and/or acoustic signal transmitters in loop technology. System monitoring by connecting e.g. switches to addressable input modules. Control of fire protection devices potential-free or monitored by output modules. Connection of monitored, conventional notification devices via siren control modules. The module DCP-1 Loop AP is plugged onto either a module DCP-1 Bus head or a module DCP-1 Bus extension. The power supply and the data connection to the central card are realized via these two modules.

Included in delivery

Module assembled and ready for installation.

Included in delivery

Module DCP-1 Bus head	930709
Module DCP-1 Bus extension	930711
Female header HSCP-SP 2,5-1U/4 (50 pcs.) (Connection plug for field cables)	924202

Note

When using more than 2 function modules on a function module mounting rail, one module Bus extension, part no 930711, is necessary for each additional function module.

Approvals / marking

See panels

Fire detection and suppression control panels

Modules

DCP-1 Relay Module

Order no: 930713

Function module for use in all design variants of the Clunid DCP-1 series. The integrated redundancy enables the management of several extinguishing zones via one module and also ensures high reliability of the module. The module DCP-1 Relay contains 8 relays with potential-free changeover contacts. Devices connected to the contacts are event-dependent controlled by the fire detection panel.

Product features

- 8 potential-free changeover contacts for switching voltages up to 30 V DC
- Module redundancy through second processor core
- Relay can be used for several extinguishing zones
- Status display shows the status of each relay at the front of the module
- Relay can be configured as main fault relay - switches also in case of processor failure of the central card
- Relays can be controlled either delayed, continuously or inverted
- Integrated module status LED on the front of the module for displaying the current module status
- Button on the front of the module for initiating module-specific functions

Technical specifications

Operating voltage (module)	19 V - 29 V DC
Quiescent current (module in standby, no active relay)	15 mA
Current increase per active relay	9 mA
Operating current (all relays active)	max. 81 mA
Number of relays	8
Switching voltage per contact	30 V DC
Switching capacity per contact	60 W DC
Contact resistance	75 mΩ
Switching time	4 mx
Connection cross section	0.2 - 1.5 mm2, rigid 0.2 - 2.5 mm2, flexible
Ambient temperature operation	-5 °C to +60 °C (+23 °F to +140 °F)
Ambient temperature storage	-30 °C to +80°C (-22 °F to +176 °F)
Relative humidity	max. 95 % no condensation
IP rating (EN 60529)	IP 20
Enclosure	Polycarbonate, grey
Installation position	vertical
Mounting	attachable onto module Bus head or module Bus extension
Number of female connectors	max. 8
Weight	185 g (0.41 lbs)
Dimensions	39.7 x 147 x 102 mm (WxHxD) 1.6 x 5.8 x 4.0 inch (WxHxD)
Part no. (not available for order)	930712

Application

FPotential-free control of e.g. fire protection devices, display panels, shutdown of ventilation systems or general information transmission. The module DCP-1 Relay is plugged onto either a module DCP-1 Bus head or a module DCP-1 Bus extension. The power supply and the data connection to the central card are realized via these two modules

Included in delivery

Module assembled and ready for installation.

Included in delivery

Module DCP-1 Bus head	930709
Module DCP-1 Bus extension	930711
Female header HSCP-SP 2,5-1U/4 (50 pcs.) (Connection plug for field cables)	924202

Note

The contacts are not intended for switching mains voltage or low-voltage consumers with high power consumption. Switching mains voltage or high power in the low-voltage range leads to malfunctions and damage to the module. When using more than 2 function modules on a function module mounting rail, one module DCP-1 Bus extension, part no. 930711, is necessary for each additional function module.

Approvals / marking

See panels

Fire detection and suppression control panels

Modules

DCP-1 Control Groups Module

Product features

- 6 monitored control outputs
- Module redundancy by second processor core
- Integrated electronic fuses (no fuse replacement required)
- Control outputs can be used for several extinguishing zones
- For activation of alarm devices, fire protection devices and other fire control systems
- Monitoring of the control outputs for wire breakage and short circuit

Technical specifications

Operating voltage floating	19 V - 29 V DC
Operating voltage regulated (optional)	26.2 V - 26.4 V DC
Current module	5 A max. 6 A (<1 min.)
Current consumption (module in standby, no output activated)	21 mA
Number of control groups	6
Continuous output current / control output at 24 V	max. 2 A
Pulse current (max. 250 ms)	max. 3 A
Connection cross section	0.2 - 1.5 mm², rigid 0.2 - 2.5 mm², flexible
Ambient temperature operation	-5 °C to +60 °C (+23 °F to +140 °F)
Ambient temperature storage	-30 °C to +80 °C (-22 °F to +176 °F)
Relative humidity	max. 95 % no condensation
IP rating (EN 60529)	IP 20
Enclosure	Polycarbonate, grey
Installation position	vertical
Mounting	pluggable onto module Bus head or module Bus extension,
Number of female connectors	max. 6
Weight	170 g (0.37 lbs)
Dimensions	39.7 x 147 x 102 mm (WxHxD) 1.6 x 5.8 x 4.0 inch (WxHxD)
Part no. (not available for order)	930718

Order no: 930719

Function module for use in all design variants of the Clunid DCP-1 series. The integrated, redundant design allows the management of several extinguishing zones via one module and also ensures high reliability of the module. The module contains 6 control groups for monitoring and controlling notification devices, fire protection devices, valves and other devices. The supply line to the devices is monitored for wire breakage and short circuit.

- Continuous current up to 2 A per output (in total max. 6 A)
- Optional use of regulated 24 V nominal voltage (DC / DC converter) for stabilizing the voltage of the control outputs by configuration
- Status display for status of each output on the front side of the module
- Control via voltage increase or polarity inversion
- Controlling either delayed or continuous
- Integrated module status LED on the front of the module for displaying the current module status
- Button on the front of the module for initiating module-specific functions

Application

Monitoring and control of e.g. valves, solenoids or notification devices in extinguishing systems or other fire control systems. The module DCP-1 Control groups is plugged onto either a module DCP-1 Bus head or a module DCP-1 Bus extension. The power supply and the data connection to the central card are realized via these two modules.

Included in delivery

Module assembled and ready for installation.

Not included in delivery

Module DCP-1 Bus head	930709
Module DCP-1 Bus extension	930711
Female header HSCP-SP 2,5-1U/4 (50 pcs.) (Connection plug for field cables)	924202

Note

When using more than 2 functional modules on a function module mounting rail, one module DCP-1 Bus extension, part no. 930711 is necessary for each additional function module.

Approvals / marking

See panels

Fire detection and suppression control panels

Modules

DCP-1 Output Power EFD Module

Order no.: 930715

Function module for use in all design variants of the Clunid DCP-1 series. The integrated, redundant design enables high reliability of the module. The module contains 2 outputs for supplying external devices with an operating voltage of 24 V DC and one input for ground fault monitoring.

Product features

- 2 filtered power supply outputs for external devices with 24 V / 2 A each
- Redundancy via two processor cores
- Integrated electronic fuses (no replacement required)
- 1 input for ground fault monitoring between control panel voltage and protective earth (PE)
- Indication of the state of the outputs at the front of the module
- Optional use of a regulated 24 V nominal voltage (DC/DC converter) for stabilization of the voltage of the voltage outputs via configuration
- Integrated module status LED on the front of the module for displaying the current module status
- Button on the front of the module for initiating module-specific functions

Technical specifications

Operating voltage floating	19 V - 29 V DC
Operating voltage regulated (optional)	21.6 V - 26.4 V DC
Quiescent current	18 mA
Number of outputs	2
Ground fault channel	1
Current consumption per output	max. 2 A
Connection cross section	0.2 - 1.5 mm², rigid 0.2 - 2.5 mm², flexiblel
Ambient temperature operation	-5 °C to +60 °C (+23 °F to +140 °F)
Ambient temperature storage	-30 °C to +80 °C (-22 °F to +176 °F)
Relative humidity (IEC 721-3-3)	max. 95 % no condensation
IP rating (EN 60529)	IP 20
Enclosure	Polycarbonate, grey
Installation position	vertical
Mounting	pluggable onto module Bus head or module Bus extension,
Number of female connectors	max. 3
Weight	163 g (0.63 lbs)
Dimensions	39.7 x 147 x 102 mm (WxHxD) 1.6 x 5.8 x 4.0 inch (WxHxD
Part no. (not available for order)	930714

Application

The Module Output power EFD is used to connect external loads. In addition, the module can detect and signal a ground fault between the internal voltage of the control panel and protective earth (PE). The module Output power EFD is plugged onto either a module DCP-1 Bus head or a module DCP-1 Bus extension. The power supply and the data connection to the central card are realized via these two modules.

Included in delivery

Module assembled and ready for installation.

Not included in delivery

Module DCP-1 Bus head	930709
Module DCP-1 Bus extension	930711
Female header HSCP-SP 2,5-1U/4 (50 pcs.) (Connection plug for field cables)	924202

Note

When using more than 2 function modules on a function module mounting rail, one module DCP-1 Bus extension, part no. 930711, is necessary for each additional function module.

Approvals / marking

See panels

Fire detection and suppression control panels

Modules

DCP-1 Network Module

Product features

- Max. network size: 64 participants
- Ethernet or BroadR-Reach signal transmission
- Max. cable length (BroadR-Reach 10 Mbit/s): up to 450 m (CAT7), 350 m (twisted pair fire alarm cable)
- Max. cable length (Ethernet 100 Mbit/s) up to 100 m (CAT7)
- Configurable data transfer rate, ground fault monitoring as well as automatic connection monitoring
- Module redundancy through second processor core
- Integrated module status LED on the module front to display the current module status
- Status LED of the individual network connections (LNK/ACT) for displaying connection (green) and activity (yellow) for each RJ45 port
- Button for initiating module-specific functions on the module front

Technical specifications

Operating voltage	19 V - 29 V DC
Current consumption (module in standby, no output active)	85 - 102 mA (depending on port configuration)
Network connections	4x RJ45
Equipotential bonding terminal	2x Push-in spring cage
Operating temperature	-5 °C to +60 °C (+23 °F to +160 °F)
Storage temperature	-30 °C to +80 °C (-22 °F to +176 °F)
Relative humidity	max. 95 % no condensation
IP rating (EN 60529)	IP 20
Enclosure	Polycarbonate, light grey
Installation position	vertical
Mounting	attachable onto module Bus head or module Bus extension
Weight	345 g (0.76 lbs)
Dimensions	39,7 x 147 x 102 mm (BxHxT) 1.56 x 5.79 x 4.02 (WxHxD)
Part no. (not available for order)	934768

Order no.: 934769

Functional module for use in all design variants of the Clunid DCP-1 series. The integrated, redundant design enables a high degree of reliability of the module. The module supports the Multiple Spanning Tree Protocol for the networking of Clunid control panels, which automatically determines the shortest path between two participants in a network and ensures that the shortest connection within the network is re-determined in case of a connection failure. Up to 64 participants can be networked. An Ethernet or BroadR-Reach signal transmission as well as the data transmission rate and ground fault detection can be configured. The connection monitoring takes place automatically after corresponding port activation in LogicManager.

Application

The DCP-1 Relay PLC module is plugged onto a module DCP-1 Bus head or module DCP-1 Bus extension. The PLC relays and PLC adapters are installed on the 35 mm mounting rail in the control panel.

Included in delivery

Module completely assembled and ready for installation.

Not included in delivery

Module DCP-1 Bus head	930709
Module DCP-1 Bus extension	930711
Patch panel FL-PP-RJ45-SCC	914347
Patchcable CAT7 0,15 m	4001483
Patchcable CAT7 1,5 m	4001441
Patchcable CAT7 2 m	4001443
Patchcable CAT7 3 m	4001444

Optional accessories

LWL Converter FL MC 1000 SC	4001520

Note

When using a total of more than 2 functional modules on a function module mounting rail, a module DCP-1 Bus extension, part no. 930711, is required for each additional module. For longer distances, a network can be set up in fiber optic technology. The LWL Converter FL MC 1000 SC, part no. 4001520, must be used.

Approvals / markings

See panels

Fire detection and suppression control panels

Accessories

Gateway Clunid GW54

Part no.: 4002945

The Gateway Clunid GW54 serves as a universal platform for connecting Clunid and FMZ 5000 series fire alarm control panels. The Gateway is integrated into an IP54 housing including power supply, power terminals and fuse. In addition to the possibility of virtual networking of control panels (UCC App), the Gateway offers a Web API for connecting third-party BMSs. The Inveron hazard management system already offers an implemented interface for the Web API. The UCC App can be used to provide a graphical control and command center for receiving messages and sending commands. The functions of the Gateway can be extended via licenses: The Modbus IP and OPC UA License packages enable data exchange via standardized protocols.

Product features

- Universal platform for the connection of a Clunid or FMZ 5000 series fire alarm control panel
- Provision of a Web API for third-party products
- Graphical user interface via the UCC App (Unified Command & Control)
- Functional expansion via additional licenses: Modbus IP, OPC UA/Pro

Technical specifications

Rated voltage	100 - 240 V AC
Rated current max.	0.8 A (100 V AC) 0.4 A (240 V AC)
Current consumption typ.	0.065 A
Fuse F1 / F2 time-lag H	5 x 20; 3.15 A / 250 V
Connection terminals	4 mm²
Overvoltage protection	yes
Communication interfaces	Network: 2 x RJ45 Serial: RS232
Operating temperature	0 °C to +45 °C +32 °F to 113 °F
Storage temperature	-25 °C to +60 °C -13 °F to + 140 °F
Relative humidity	max. 90 % no condensation
IP rating (EN60529)	IP 54
Mounting position	wall mounting
Enclosure	Polycarbonate
Color	RAL 7035, cover transparent
Weight	4.5 kg (9.92 lbs)
Dimensions with Frame Housing	400 x 350 x 132 mm (WxHxD) 15.7 x 13.8 x 5.2 inch (WxHxD) 400 x 350 x 187.1 mm (WxHxD) 15.7 x 13.8 x 7.37 inch (WxHxD)

Approvals / markings

CE

ISoftware applications

Pre-installed, ready for operation:

Clunid Connector App
FMZ 5000 Connector
UCC App

Software licenses, seperately available:

License package Modbus IP	4005425
License package OPC UA	4005426
License package OPC UA Pro	4005427

Included in delivery

Gateway Clunid GW54
Mounting material
Cable Gateway - Module FMZ5000 MxNet
Installation instructions (de/en)

Not included in delivery

Module DCP-1 Network ET	934769
Module FMZ 5000 MxNet	904877
Attachment Frame Housing 300x400x55 PC	4005905
Patch cable RJ45	

Spare parts

Fuse 3.15 A/250V miniature time-lag H	908576
Cable gland M20x1,5 mold.mat. GY SKINTOP	900453
Locknut 20x1.5 molding material	801722
Cable gland M20 split	4002946
Power supply UNO-PS/1AC/24DC/ 30W	4005904

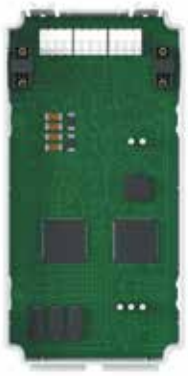
Note

For the connection of a fire alarm panel of the series FMZ 5000 to the gateway, the FMZ 5000 MXNet module and the Attachment Frame Housing are required. For the insertion of a RJ45 patch cable, the cable entry for the data cable in the housing has been implemented as a separable entry with two openings.

Fire detection and suppression control panels

Modules

DCP-1 Zone Control Panel Module



Order no.: 931469

Zone control panel for use in all design variants of the Clunid DCP-1 system. This module is a free configurable input and output interface installed in the front of the control panel. The zone control panel also serves as a display and control panel for individual extinguishing zones and as individual detector group display for fire detection systems.

Product features

- 16 freely configurable capacitive buttons
  1 capacitive button per zone
- 16 freely configurable status LED each
  in yellow and red
- Individual labeling option for each pair of LEDs or each switch button via inlay sheets
- Simple installation via click-in technology

Application

LEDs display alarms, faults, status messages and operating signals. The buttons can be used to implement various functions, such as disablements, confirmation, etc. Each button can be configured via the LogicManager as a capacitive button or with switch function.

Technical specifications

Operating voltage	19 V - 29 V DC
Quiescent current	16 mA
Current increase per active LED (constant light)	3 mA
Number capacitive buttons	16
Number LED red	16
Number LED yellow	16
Ambient temperature (operation)	-5 °C to +60 °C (+23 °F to +140 °F)
Storage temperature	-30 °C to +80 °C (-22 °F to +176 °F)
Relative humidity	max. 95%, no condensation
Installation position	vertical
Mounting	click mounting in the frame of the front cover
Weight	107 g (0.24 lbs)
Dimensions	70 x 113 x 11 mm (LxHxD) 2.76 x 4.45 x 0.43 inch (LxHxD)
Part no. (not available for order)	931555

Included in delivery

Module completely assembled and ready for installation. Short connection cable for connection to another zone control panel at the front panel.

Not included in delivery

Wiring harness 10-pol L700-2 socket strip (Connecting cable between two zone control panels)	903942

Approvals / marking

See panels

Socket Clunid card BBF

Part no.: 926970

Unassembled socket to increase front foil strength when zone control panel slots are not in use and for use behind the Foil DCP-1 cover BBF, part no. 932556.

Fire detection and suppression control panels

Enclosure/front plates

DCP-1 Zone Control Panel Front Plate

Part no.: 930679

Front plate for mounting in the front frame of the enclosures of DCP-1 14UD, 21UD and 40UD. Labeling is carried out via an insert sheet for each area control panel. The module DCP-1 zone control panel, part. no. 931469, is simply plugged into the front plate and locked in place using latching lugs.

Technical specifications

Color	RAL 7035
Material	Aluminum
Weight	500 g (1.1 lbs)
Dimensions	19” x 4U (WxH)

Included in delivery

Front plate complete and ready for installation in the front of a fire detection and suppression control panel DCP-1.

Not included in delivery

Module DCP-1 zone control panel	931469
Pan-head screw with washer M6 x 16 (PU 50 pcs.)	607284
Nut KM6 “cage nut”	138670
Wiring harness 10-pin L700-2 socket strip (Connection wire between two front plates zone control panels)	903942
Foil DCP-1 cover BBF	932556

Note

Connection wire (short) for two Zone control panels is included in delivery of module Zone control panel, part no. 931469.