

Extinguishing Control Panel

Series LC216

- **Actuation and monitoring of up to 127 extinguishing systems or 127 flooding zones**
- **Fully integrated into Fire Detection Control Panel Series BC216**
- **Individual control panel or flexibly expandable control panel network**
- **Suitable for all system sizes**
- **Optional hardware redundancy**
- **EN 54, EN 12094-1, VdS certified**



Fire is a permanent threat to life and property. Therefore, immediate response to a fire is imperative. The main objective of the Extinguishing Control Panels Series LC216 is to alarm and to react in time and, consequently, save lives and protect property. For decades LST have focused their aims to undertaking unrivaled efforts in order to realize new innovations in the security area. Research, development and production are loca-

ted within LST premises, thus guaranteeing flexible and reliable individual solutions.

Using a 32-bit multiprocessor system, the Extinguishing Control Panels Series LC216 ensure topmost efficiency and speed – prerequisites for saving lives and minimizing damage to property.

Description

The Extinguishing Control Panel Series LC216 is an extended Fire Detection Control Panel Series BC216 with additional functions for the control of extinguishing systems. Nevertheless, all functions of the fire detection control panel remain intact. Therefore, a combined use as fire detection and extinguishing control panel is provided as standard.

The Extinguishing Control Panels Series LC216 comprise the following types of control panels:

- The Extinguishing Control Panel LC216-1 for an extinguishing system with one flooding zone according to EN 12094-1 or with up to 8 flooding zones without compliance to EN 12094-1.
- The networked Extinguishing Control Panel LCnet216 for up to 127 extinguishing systems. The LCnet216 consists of several sectional control panels, which

are interconnected via the Global Security System Network GSSnet and thereby form a decentralised extinguishing control system. Each extinguishing system can control up to 32 flooding zones, and each LCnet sectional control panel can administrate up to 8 flooding zones. A maximum of 127 flooding zones can be controlled by an Extinguishing Control Panel LCnet216.

The Extinguishing Control Panel Series LC216 fulfils all compulsory requirements as well as the options of EN 12094-1, EN 54-2 and EN 54-4 and is VdS certified.

The networked Extinguishing Control Panel LCnet216 can be easily implemented with a redundant design of the extinguishing control.



0786-CPD-20267

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System design

The Extinguishing Control Panel LC216-1 can be used to realize an extinguishing system with one flooding zone according to EN 12094-1. In an extinguishing system that does not require a design according to EN 12094-1, up to 8 flooding zones can be actuated.



The function of the Extinguishing Control Panel LC216-1 is integrated into the Fire Detection Control Panels BC216-1 and BC216-1CE and can be enabled by means of an options circuit.

In the networked Extinguishing Control Panel LCnet216, up to 127 extinguishing systems with a total of 127 flooding zones can be implemented. Each extinguishing system can control up to 32 flooding zones, and each LCnet sectional control panel can administrate up to 8 flooding zones.

- the fire detection control panel with operating unit BC216-1CE with installed Network Interface Module NIF5-1M, and the BCnet sectional control panel without operating unit BC216-3CE, for installation into a 19" housing, as well as
- the Fire Detection Control Panel Modules BCM216-3EPS, BCM216-3E and BCM216-3ELG for sliding into a 19" rack.

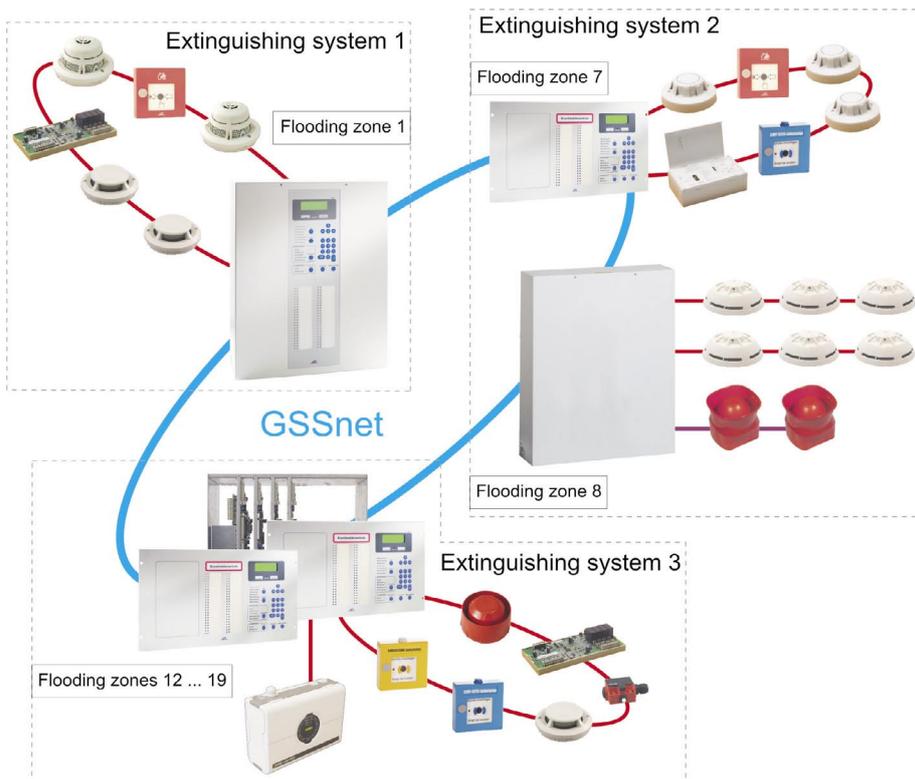
The Extinguishing Control Panel LCnet216 can be implemented with all types of Fire Detection Control Panels Series BC216 that are suitable for networking.

These are

- the BCnet sectional control panel with operating unit BC216-2 and without operating unit BC216-3 in a wall-mount cabinet,
- the BCnet Sectional Control Panel Extension BCE216-3LG for installation into a BCnet Sectional Control Panel BC216-2 or BC216-3,

A redundant design of the extinguishing control panel according to EN 12094-1 can be implemented by means of the fire detection control panel modules in 19" slide-in technology.

Other versions of the Fire Detection Control Panel Series BC216 can be implemented according to EN 12094-1 – without redundancy – with one flooding zone per BCnet sectional control panel.



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Features

The extinguishing control function is fully integrated into the Fire Detection Control Panel Series BC216. The Extinguishing Control Panel Series LC216 comprises the following additional features:

- The Extinguishing Control Panel LC216-1 serves for the actuation of an extinguishing system with up to 8 flooding zones. By means of the networked Extinguishing Control Panel LCnet216, up to 127 extinguishing systems can be actuated. Each extinguishing system can control up to 32 flooding zones, each LCnet sectional control panel can administrate up to 8 flooding zones. A maximum of 127 flooding zones can be controlled by an Extinguishing Control Panel LCnet216.
- All zones with automatic fire detectors or manual call points can be used for the actuation of the extinguishing system. The respective detectors and detector zones are assigned to the individual flooding zones by defining combinations and dependencies.
- Input signals for the actuation of the extinguishing system can be received through zone inputs in conventional or ADM technology, as well as via fire brigade interface inputs.
The ADM technology allows to connect detectors, signalling devices as well as monitor and control modules in intelligent analogue ring bus technology. A safe supply of the loop elements is achieved through the redundant cable path. Therefore, standard fire detection cable can be used for wiring.
- Various zone and input types, such as „Emergency hold device“, „Manual mode“, „Extinguishing medium active“ or „Reset extinguishing system“ provide spe-

cific functions for the actuation of the extinguishing system.

- For the actuation of valves or signalling equipment, various types of actuation are available, which can be assigned to any outputs of the control panel or to an ADM control module. The activation of these actuations is timed according to EN 12094-1.
- The condition of flooding zones or extinguishing systems can be output by the status outputs of the control panel or via ADM modules. Furthermore, status LEDs can be freely parameterised as optical condition display.
- Depending on the size of the flooding zone and the capacity of the extinguishing agent cylinders, for each flooding zone the actuation of further flooding zones can be unblocked or blocked.
- In the appropriate authorisation level, a flooding zone can be operated at the display and operating unit of the fire detection control panel. In addition to disablenents, enablements and toggling between manual and automatic mode, it is also possible to test the signalling equipment for pre-alarm and evacuation alarm.
- The Extinguishing Control Panel Series LC216 can be comfortably parameterised via PC by using the Windows Parameter Setup Software PARSOFIT. The clear user interface allows an almost self-explanatory definition of the system configuration and thereby minimizes the requirement for training. The entered parameters can be loaded into the control panel after an automatic verification for technical correctness.

Advanced features

In addition to all compulsory functions of EN 12094-1, the extinguishing control panel fulfils the following options of this standard:

- Delay of extinguishing signal
- Signal representing the flow of extinguishing agent
- Monitoring of the status of components
- Emergency hold device
- Control of flooding time
- Initiation of secondary flooding
- Manual only mode
- Triggering signals to equipment within the system
- Extinguishing signals to spare cylinders
- Triggering of equipment outside the system
- Emergency abort device
- Control of extended discharge
- Release of the extinguishing media for selected flooding zones

Redundant design

The Extinguishing Control Panel Series LC216 can be optionally implemented with a hardware-redundant design. A redundant design is required according to the standard EN 12094-1 for fixed gas extinguishing systems, if one sectional control panel actuates more than one extinguishing area.

A redundant design of the extinguishing control panel can be implemented by means of the fire detection control panel modules in 19" slide-in technology. The parameterisation of the redundant extinguishing control panel is fully supported by the Parameter Setup Software PARSOFIT.

Extinguishing control licence

The extinguishing control function is enabled in the Extinguishing Control Panel LC216-1 and in any LCnet sectional control panel by installing an appropriately parameterised options circuit. This control panel LC216-1

or LCnet sectional control panel can be used for the actuation of up to 8 flooding zones.

The options circuit is part of the Extinguishing Control/8-Area Licence LC216-8LB.

Specifications

Extinguishing Control Panel LC216-1

Number of extinguishing systems	1
Number of flooding zones	max. 8

Extinguishing Control Panel LCnet216

Number of extinguishing systems per sectional control panel	1
Total number of extinguishing systems	max. 127
Number of flooding zones per sectional control panel	max. 8
Number of flooding zones per extinguishing system	max. 32
Total number of flooding zones	max. 127

Extinguishing control licence for 8 flooding zones

Approvals	
CE marking	0786-CPD-20267
as pure extinguishing control panel	VdS G206046
as combined fire detection and extinguishing control panel	VdS G206089 FT 14/423/06 (Austria)
Order number	218024
Order name	Extinguishing Control/8-Area Licence LC216-8LB

