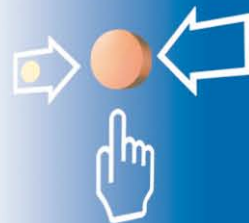# Fire Detection Control Panel
BC600-8

- **Modular structure with flexible expandability**

- **Plug-in slots for 8 function modules**

- **Intelligent ringbus technology with 3 different loop protocols or addressable conventional technology**

- **Intuitive, menu-driven operation**

- **Clear event indication on spacious 1/4 VGA graphics display**

- **3 expansion fields in the case front**

Fire is a permanent threat to life and property. Therefore, an immediate response to a fire alarm is imperative. The main objective of the Fire Detection Control Panels Series BC600 is to alarm and to react in time and, consequently, protect people and preserve property.

For decades LST have focused their aims to undertaking unrivalled efforts in order to realise new innovations in the security area. Research, development and production are united in one company. Highly skilled employees, stringent test methods and a mature quality management system form the basis for high-grade products.

Thanks to the use of cutting-edge microelectronics and a thoughtful mechanical design, the Fire Detection Control Panels Series BC600 provide completely new possibilities and at the same time offer a high degree of reliability – prerequisites for saving lives and minimising damage to property.

Description

The Fire Detection Control Panel BC600-8 with its modular structure can be individually adapted to the requirements of the system. The control panel can be easily expanded later, which makes the control panel a future-proof investment.

The control panel has 8 mounting positions for the installation of function modules – for example, loop interfaces or conventional detector interfaces. Therefore, up to 8 loops with selectable loop protocol, a maximum of 64 detector lines in addressable conventional technology or a combination thereof can be connected to the BC600-8. If extension housings are used, the control panel can serve up to 54 function modules – including a maximum of 20 loop interfaces. As a result, you get the highest flexibility, even with larger fire detection systems.

The Series BC600's intelligent loops offer ringbus technology with bi-directional digital data traffic. Each loop provides for the software-aided administration of up to 318 physical address points in a maximum of 200 detector zones. Addressable conventional technology allows the connection of automatic fire detectors and manual call points as well as the unambiguous identification of the activated detector in the event of an alarm.

At the front of the housing of the BC600-8, there are 3 expansion fields for the installation of additional devices such as an LED display field, an LED button field, an event printer or an authorization lock. When the control panel is expanded, this not only saves space but also reduces the costs for auxiliary case, mounting and cabling.

The easy parameterisation by means of the PC software PARSOFT allows you to optimally adapt the control panel to your individual requirements in a time-saving way. AUTO-setup facilitates the parameterisation through automatic detection and presetting of componentries and loop elements.

VdS
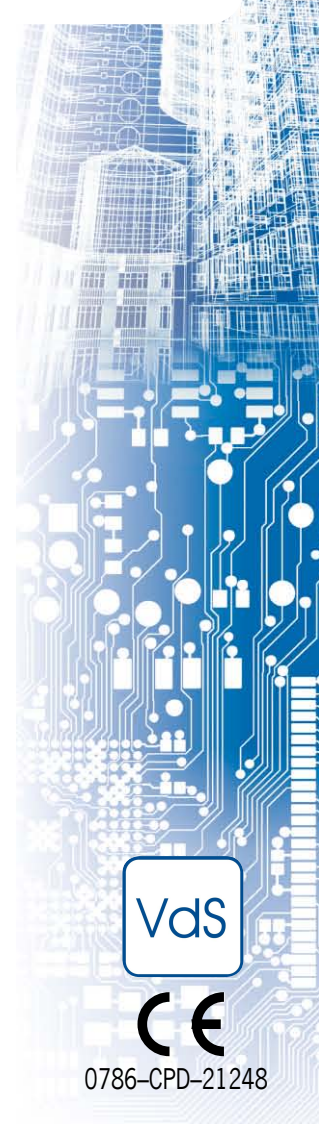
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Clear Concept

The Fire Detection Control Panel BC600-8 has been designed for use in small and medium-sized systems. Depending on its configuration, it provides the following features:

- The wall-mount cabinet offers 8 mounting positions for function modules. The function modules are designed as plug-in units and are connected via a powerful bus system.
- Detectors and modules in intelligent loop technology with bi-directional data traffic can be connected to the Loop Interface LIF601-1. Each loop interface can be parameterised for use with the Labor Strauss/700 protocol, the System Sensor/200-Advanced protocol or the Apollo/Discovery protocol. In this way, fire detection systems with different detector brands can also be realised easily.
  The maximum loop current of 500mA allows connection of numerous components with increased current demand. The loop analysis functions of the BC600 make commissioning and maintenance of the loop easier and facilitate troubleshooting.
- The Conventional Detector Interface GIF608-1 permits the connection of automatic detectors and manual call points in conventional technology as well as special detectors with contact output. Individual detector identification can be achieved by means of an optional address module.
- The Fire Brigade Interface FWI601-1 serves for the line-monitored connection of an independent transmitting device for a direct interconnection to a designated alarm respondent – for example, the fire brigade – as well as for the connection of a country-specific fire brigade control unit.
- Two monitored siren outputs, three dry relay contacts, 8 open-collector outputs and 3 inputs are standard.
- Thanks to the „hot plug & play" function, componentries can be inserted or removed without switching off the power supply. This does not interrupt the ongoing operation of the system. The central processor automatically detects a newly inserted componentry and puts it into operation immediately.
- Pluggable terminals on all componentries make the installation and the exchange of componentries easier and avoid wiring faults.
- The BC600-8 can manage up to 4000 detector zones, 2000 actuations or alarming devices as well as 9 transmitting devices.
- Customisable outputs and logic combinations of detectors and detector zones for the activation of external controls and alarming devices facilitate maximum flexibility. Thus, no additional expenses arise for external relays, logic gates or timers. Thanks to the wide range of parameterisation possibilities, individual requirements even of complex applications can be combined into a reasonable fire protection strategy.
- The free combination of detectors and modules into logic sectors permits the joint operation of defined parts of the system even beyond loop limits. The BC600-8 can manage up to 256 sectors.
- The use of unshielded loop cables allows for cost-saving and uncomplicated installation as well as for the possibility of reusing the existing cabling.
- The BC600-8's compatibility with older generations of LST fire detection control panels facilitates the replacement of installed control panels. An existing detector installation in conventional or loop technology can be used without having to change it.
- In the event of a failure of the central processing board or a function module, the diversified redundancy concept ensures secure alarm recognition. In addition, hardware redundant versions of the most important componentries can be used. As a result, the control panel meets even the highest demands on failure safety.
- The processor-monitored power unit with an output current of 2.3A or 4.3A makes sure that the batteries are permanently monitored and charged. In this way, the undisturbed and uninterrupted operation is ensured even in the event of a mains failure.
- The parameter data are conveniently created or edited by means of the PC software PARSOFT. Via a USB interface, the parameterisation is transferred from the PC to the control panel or read out from the control panel. By means of PARSOFT, the control panel firmware can be upgraded easily and quickly.
- AUTO-setup facilitates parameterisation when the control panel is first put into operation or expanded and thus helps to save time.

The practically oriented structure of the wall-mount cabinet allows easy mounting and time-saving cabling of the control panel. Thanks to its modern, ageless design, architectural requirements and demands of the respective regulations are ideally combined. In addition to the central processing board and the function modules, the housing can also accommodate auxiliary modules and batteries with up to 22Ah. The BC600-8 thus stands for modularity and easy expansion.

The Fire Detection Control Panels Series BC600 comply with all relevant standards of EN 54 and have been tested by VdS. LST's high quality level is secured by a permanently monitored quality management system certified according to ISO 9001.

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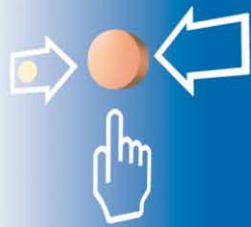
Event indication and operation

The large 5.7" 1/4 VGA graphics display indicates all current events of the system. The events are sorted and listed in 6 menu windows according to the type of message. Additional graphic symbols next to each event, parameterisable additional information such as the name of the room or a plan number as well as date and time of the event permit quick and targeted reaction in case of emergency. The switching between overview and detailed mode additionally improves the readability of the messages.

An event memory allows for the indication of the latest 10,000 events at any time, including all required information. Thus, all system conditions and user operations that occurred are documented in a clearly laid out way.

The fire detection system is easily operated menu-driven via the operating field of the control panel. A clear menu structure and situation-dependent function keys facilitate the user guidance in the event of an alarm, in the normal condition as well as during commissioning or maintenance. As a result, the training costs are reduced to a minimum.

In the lowest line of the display, counters of the most important events as well as the current assignment of the function keys are indicated.

Three hierarchised authorization levels for operation and parameterisation provide a high degree of security against unauthorized access.

An extensive user rights management allows the definition of individual access rights for up to 256 different users in 32 user groups. [1]

1) At the moment this function or component may not be available yet or may only be available with limitations.
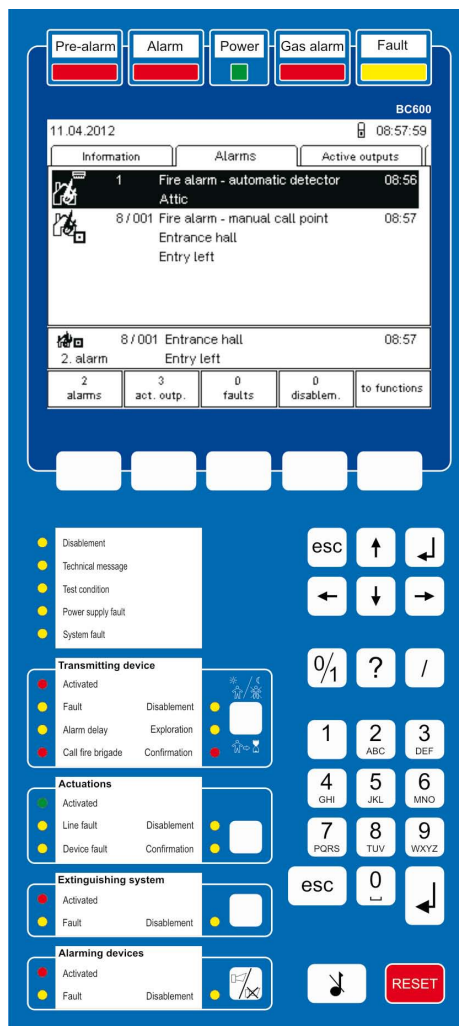
Expansion fields

In the front of the housing of the Fire Detection Control Panel BC600-8, there are 3 mounting spaces for expansions. Additional devices such as
- an LED display field,
- an LED button field,
- a fire brigade control unit,
- a panel-mount printer or
- an authorization lock

can be easily integrated into the control panel, thereby ensuring space-saving and orderly arrangement without external cabling. The additional devices are parameterised together with the control panel by means of the PC software PARSOFT.

LED Display Field LAF648-1

Control panel network net600

In order to build large or far-flung systems, up to 127 Control Panels Series BC600 can be connected together in a large-scale control panel BCnet600, via the ring-shaped security network net600.

The maximum size of a BCnet600 comprises 20,000 detector zones as well as 9,700 output functions – actuations, alarming devices and transmitting devices.

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System components

A variety of compatible system devices can be connected to the Fire Detection Control Panel BC600-8:
- acoustic and optical signalling devices,
- actuations,
- fire brigade control units,
- fire brigade key safes,
- remote display and operating panels,
- remote indication units,
- external protocol printers,
- electronic operation control systems,

- transmitting devices for the actuation of pagers via ESPA protocol,
- modules for remote access via computer network or mobile phone connection
- transmitter modules for the transmission of messages via SMS or e-mail,
 – and many more.

Specifications

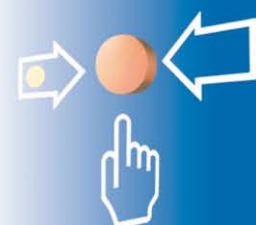| Mains voltage	230VAC +10/-20%, 47 to 63Hz
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	444 × 530 × 121 (mm)
Colour housing	grey white, RAL 9002
Approvals (EN 54-2, EN 54-4)	VdS G212164 0786-CPD-21248
Version with 2A power unit	
Connection power	75VA
Output current of power unit	max. 2.3A
Weight without accumulator	appox. 8kg
Order number	211200
Order name	Fire Detection Control Panel BC600-8L2S
Version with 4A power unit	
Connection power	140VA
Output current of power unit	max. 4.3A
Weight without accumulator	approx. 8.4kg
Order number	211201
Order name	Fire Detection Control Panel BC600-8L4S

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Version with 2A power unit – no central processing board	
Connection power	75VA
Output current of power unit	max. 2.3A
Weight without accumulator	appox. 7.8kg
Order number	211213
Order name	Fire Detection Control Panel BC600-8L2N
Version with 4A power unit – no central processing board	
Connection power	140VA
Output current of power unit	max. 4.3A
Weight without accumulator	approx. 8.2kg
Order number	211214
Order name	Fire Detection Control Panel BC600-8L4N
Version with 8A power unit – no central processing board	
Connection power	260VA
Output current of power unit	max. 8.5A
Weight without accumulator	approx. 8.6kg
Order number	211215
Order name	Fire Detection Control Panel BC600-8L8N

Central processing board	
Order number	211100
Order name	Central Processing Board ZTB600-1
Central processing board with hardware redundancy	
Order number	211101
Order name	Central Processing Board Redundant ZTBR600-1

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