



BC8002

# Reliable, safe, and economical.

BC80 – innovative fire safety products from Siemens.

Alarm



● CPU Trouble

● Trouble

● Activation

● Main Power

● Battery

● Isolation

● Test



## Vital for survival: protection against fire.

Fire safety is an important issue for the survival and success of your business. Fires must be detected the instant they occur, before lives or property are jeopardized. With the addressable BC80, Siemens offers you a range of reliable – and economical – fire safety products from fire detectors to control panels. They ensure accurate fire detection and alarm signaling, for effective protection of people, buildings, and assets.

# Economical fire protection – genuine Siemens quality.

## ■ Siemens quality

With the BC80 system, you receive Siemens quality based on in-depth research and development, state-of-the-art production technology and over 150 years of experience in fire protection.

## ■ A flexible solution for the future

BC80 offers the flexibility you need, for system expansions, modernization or backwards-compatible innovations. Thanks to its open topology, the system is forward-looking – for easy adaptation to growth and changing requirements.

## ■ Economical solutions

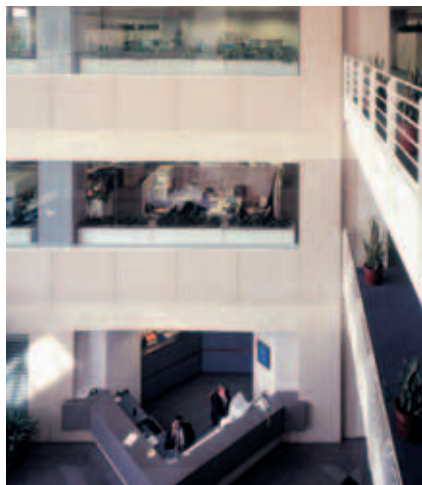
High-quality fire protection equipment at moderate investment costs: that is BC80. In addition, it is not only fast and easy to install, but also easy to use.

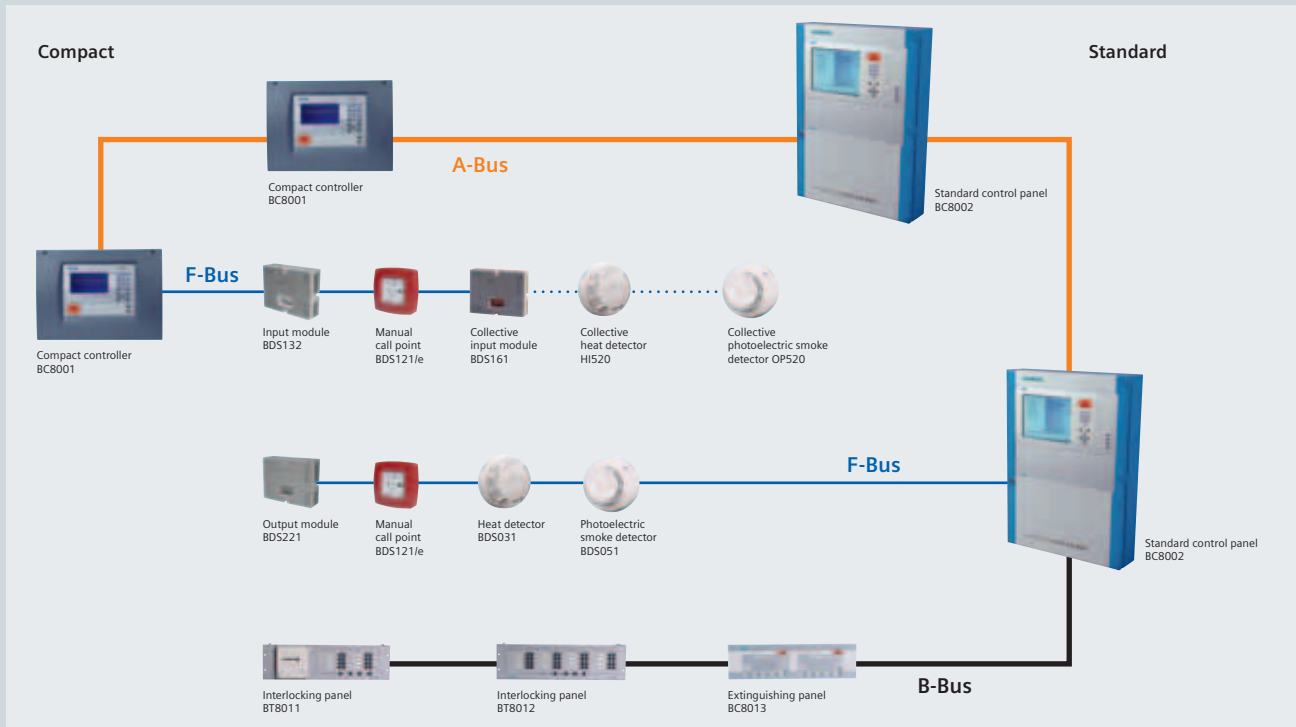
## ■ Easy to install and commission

BC80 systems are easily and quickly installed, networked, and put into service. You protect your premises within a very short time. BC80 provides polarity-free wiring; poles can no longer be accidentally reversed. Therefore the networking of BC80 fire detectors, peripheral equipment and BC80 control panels is rapid and accurate; the signal of protection always reaches its mark. Maintenance costs are also very moderate, another plus for long-term protection.

## BC80 – advantages at a glance:

- Brand quality from Siemens – for residential and commercial buildings
- A flexible solution – expandable and compatible with future development
- Economical – thanks to moderate investment costs
- Fast implementation – with easy installation and commissioning





#### Legend

- A-Bus** Network for connecting control panels (max. 32 control panels, bus length 1 km – can be extended with CAN-Bus bridge)
- F-Bus** Bus system for connecting line devices (max. 127 devices per line, bus length 1 km)
- B-Bus** Network for connecting up to 3 B-Bus devices (bus length 100 m)

BC80 system configuration

## A wide portfolio for your protection.

### ■ Versatile products

BC80 comprises a wide range of products to meet varied requirements. Networking of products matches your needs. Products include, for example, addressable or collective heat and smoke detectors. Control panels are available from compact to large units, and can thus grow with your business and requirements.

### ■ Different applications

BC80 is the dependable choice for applications large or small. Every control panel can either be installed individually or networked to other panels. The system matches the building size exactly.

BC80 is suitable, for example, for

- government buildings
- hotels
- commercial buildings
- retail stores
- residential complexes
- office buildings
- schools.

### ■ Advanced system technology

The BC80 system technology includes special patented process algorithms and ASICs. This increases immunity to environmental factors. For example, automatic drift compensation ensures that detector sensitivity remains constant, even if the atmosphere around the sensor is unclear.

### ■ Simple central operation

A clear user interface reduces the time your security personnel need to become familiar with the system. Rapid understanding ensures that they always react correctly. Both key-pad and menu are ergonomically designed for easy operation.

### ■ Flexible networking

A BC80 installation grows with you. When you extend or convert your building, the BC80 installation can be easily expanded. Up to 32 control panels can be networked via the A-Bus, while optional line or expansion cards increase the number of peripheral devices that can be connected.

### ■ Automated safety procedures

BC80 can activate other building controls via special interfaces. This allows the implementation of fire control systems that automatically activate initial fire protection measures, such as closing smoke protection flaps in air-conditioning ducts or switching off ventilation systems.

### BC80 – advantages at a glance:

- Reliable fire detection – through state-of-the-art technology
- Correct reactions – thanks to user-friendly control panels
- Fast intervention – due to automatic activation of fire controls
- Greater safety – thanks to automatic fire protection measures
- Easy to expand and modify – with flexible networking



# A wide range of applications.

BC80 comprises an extensive product portfolio and can be installed in various building types. For instance, it is a perfect solution for:



Hotels



Commercial buildings



Residential complexes









Government buildings














Retail stores

## Panels and systems

Compact control panels				
				
Type	BC8001	BC8001E	BC8001P	BC8001PE
Description	Compact controller	Compact controller	Compact controller	Compact controller
Lines	1	2	1	2
Devices	127	254	127	254
Networkable	No	Yes: up to 32	No	Yes: up to 32
Embedded printer	No	No	Yes	Yes
Special features	Built-in 32 bit microprocessor and USB upload/download of user data			
Standard control panels				
				
Type	BC8002-1	BC8002-2	BC8002-3	
Description	Wall-mounted standard control panel	Wall-mounted standard control panel	Wall-mounted standard control panel	
Line cards	1	2	3	
Devices	500	1,000	1,500	
Networkable	Yes: up to 32	Yes: up to 32	Yes: up to 32	
Special feature	Windows Explorer type user manual in 10" illuminated LCD screen			
Function modules for BC80 standard control panels				
				
Type	BT8011	BT8012	BC8013	
Description	Interlocking panel 8 zones	Interlocking panel 16 zones	Extinguishing panel	
Special features	Direct control to third-party control system			

## Detectors and peripherals (Field devices BC80 system)

Addressable detectors and bases				Manual call points
				
Type	BDS031	BDS051	BDS000	BDS121
Description	Heat detector	Photoelectric smoke detector	BC80 addressable detector base	Manual call point
Special features	Addressable rate-of-rise and fixed-temperature type heat detector	Addressable optical smoke detector with patented smoke chamber	Addressable base with no electronics element	Addressable manual call point with special testing tool
Addressable modules				
				
Type	BDS132	BDS161	BDS152	BDS221
Description	Input module	Collective input module	Isolate module	Output module
Special features	Input module with LED indication	Addressable module for conventional detectors	Short-circuit protection isolator module	Output module with confirmation
Conventional detectors and bases (Collective)				
				
Type	HI520	OP520	SO520	
Description	Collective heat detector	Collective photoelectric smoke detector	Collective detector base	
Special features	Fixed-temperature type heat detector	Optical smoke detector	Base with no electronics element	

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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