Fire Alarm Panel 8008

- **Modular design, flexible configuration for optimum adjustment to future requirements**
- **100 percent redundancy with second CPU card**
- **UP to 40 esserbus loops**
- **esserbus loop can be combined with spur**
- **UP to 127 fire detectors / detector zones in one loop**
- **Up to 31 control panels can be networked via essernet**
- **Simple installation and commissioning**
- **Error diagnosis implemented in each module / automatic status analysis / remote diagnosis via PC**
- **Integrated interface to connect a fire department operating panel**
- **Extinguishing agent/extinguishing system control via 4G/2R transponder**
- **Integrated printer, a remote printer can be connected**

### The universal fire alarm panel: Future-proof, expandable and universal

The 8008 fire alarm panel suits all safety requirements in large objects, where it is universally applicable. With its modular design, the panel can be flexibly configured and easily adjusted to satisfy the requirements, thus facilitating individual planning and safeguarding future-proofness.

Like all our products, the 8008 fire alarm panel features simple installation and commissioning combined with cost effectiveness.

The following detector types and micromodules can be connected to the 8008 fire alarm panel:

- Limit Value Detector Series 9000
- Diagnostic Detector 9100
- Intelligent Detector Series 9200
- IQ8Quad Detector

Optional second CPU card

Modern software and hardware architecture allows perfect adjustment to all existing and even changing requirements conditions. The EN-54 directive stipulates that for more than 512 detectors connected to one control unit, a redundant CPU must exist to ensure uninterrupted functionality in case the mainframe computer breaks down. Hence, optimum safety is guaranteed in every possible situation.
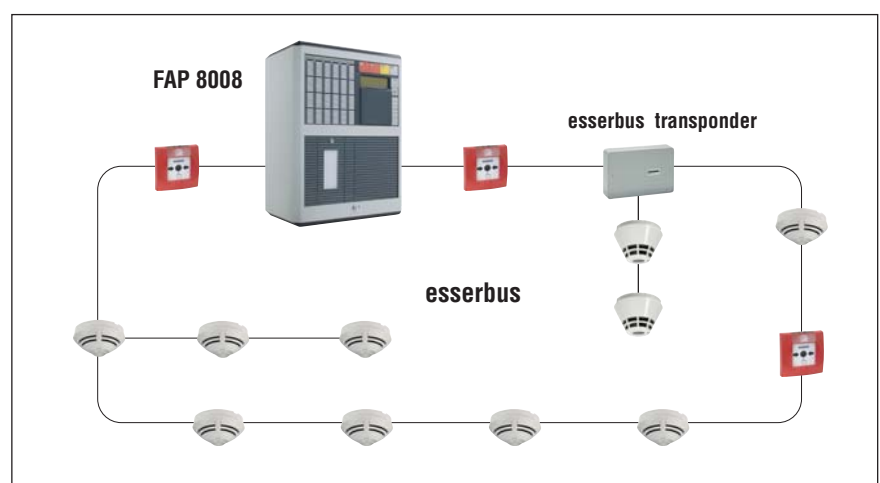
Combined loop and spur technology

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Increased safety

When the central control panel is not available during breakdown, the control circuit enables fire alarm messages to be indicated at and forwarded to another control unit. During power failure, alarm control is ensured by battery controlled operation. Thus, the detection can be continued even during redundancy operation.

Modular design for expansions

With the BMC 8008 hardware design up to 40 micromodules can be connected. Therefore, the system can be individually configured for each application type.

Flexibility and loop security

Loop technology allows modifications in planning and subsequent applications to be made without any difficulties.

The sensors in each detector or detector zone can be activated and deactivated either by hand or by selecting the time controlled activation/deactivation mode.

The esserbus does not only transmit alarm messages but also error messages and maintenance reports. Additionally, a text display indicates the exact position of each detector within the bus system.

## Multi-purpose connection to state-of-the-art detector technology

With the fire alarm panel 8008, all-round fire security is achieved by providing various options for connecting different detector types according to the requirements. Especially, our sophisticated IQ8Quad multisensor detectors offer best detection reliability in almost every fire situation.

esserbus

Via the esserbus system loops and spurs can be combined to connect a total of 127 detectors and esserbus transponders, which can be grouped into a maximum of 127 detector zones. In case of wire break, all loop devices remain active and operable. Only the bus part located between the two devices affected is automatically disconnected. The esserbus transponders are bus devices with freely programmable inputs and outputs that can be used for controlling or monitoring external devices or for connecting standard or diagnostic detectors. The fire alarm panel 8008 automatically identifies the respective loop wiring and therefore is able to logically evaluate the logical address of each bus device. Thus, the devices do not require individual address setting. Individual address configuration for each component is not required.

essernet

The essernet allows hierarchy-free networking of up to 31 bus devices such as control panels, indicating and operating panels, gateways or electronic application files. Messages such as alarm, fault, deactivation or other events can be visualised within the whole essernet system and can therefore be further processed.

The essernet and the esserbus
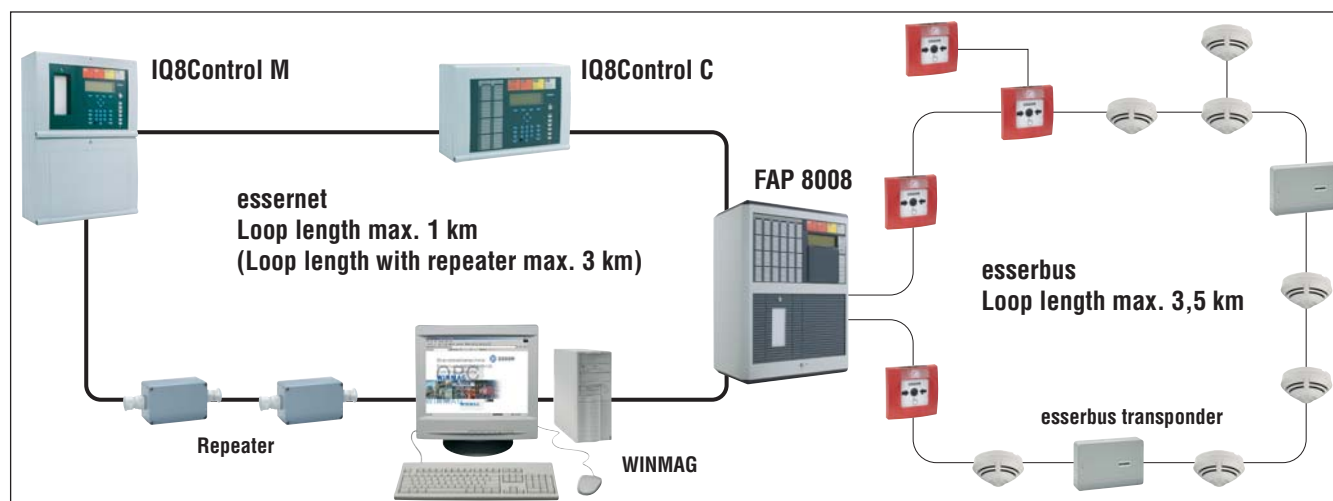
Simple installation and operation

The panel must be programmed directly at the control panel via PC or laptop. To facilitate the programming process fast programming and commissioning guides are provided.

For easier operation, each display contains only essential information. When connected to the essernet network, remote operation is also possible.

Optionally, alarm and status information can be checked via single zone indication at the control panel, at decentralized zone layout panels or via plain text display. Additionally, the information can be printed via remote printers or those printers integrated into the control panel.

TEDIS remote diagnosis system

TEDIS is operated via the public telephone network. When error messages or maintenance reports are received it is crucial to immediately get an idea of the current situation. Thus, service provisions can be planned more efficiently to suit the precise requirements for material, personnel and equipment.

TEDIS also enables all essential control panel information to be requested and identically displayed at the indicating and operating panel. This feature is also implemented for essernet applications with up to 31 control panels.

TEDIS displays the following information sets:

- All control panel data
- All current status reports

Available micromodules:

4-zones fire detection module   **Part No. 784381**
Zone card for connecting up to 30 Series 9000 automatic fire detectors and / or up to 10 Series 9000 manual call points per zone.

Analog loop module   **Part No. 784382.D0**
Single loop circuit module for up to 127 Series 9200 / IQ8Quad intelligent fire detectors or bus devices, divisible into 127 zones.

Master box interface module   **Part No. 784385**
Single master box interface module for activating and processing acknowledgement signals from master boxes; programmable as constant or pulsed master box activation.

RS 232/TTY serial interface module   **Part No. 784842**
Serial interface module with optional RS 232 or TTY typ, for operating external devices such as printers, modems for remote diagnosis.

4-relay module   **Part No. 787530**
4-relay module with freely programmable output functions, each of which can operate as an NC or NO contact (not monitored) for potential-free activation.

3-relay module   **Part No. 787531**
3-relay module with output functions which can be programmed either as NC or NO contacts, 3 x latching "monitored" relay outputs.

3-relay common fault module   **Part No. 787532**
3-relay module with preset functions such as common fault, 2 x freely programmable monitored relay outputs.
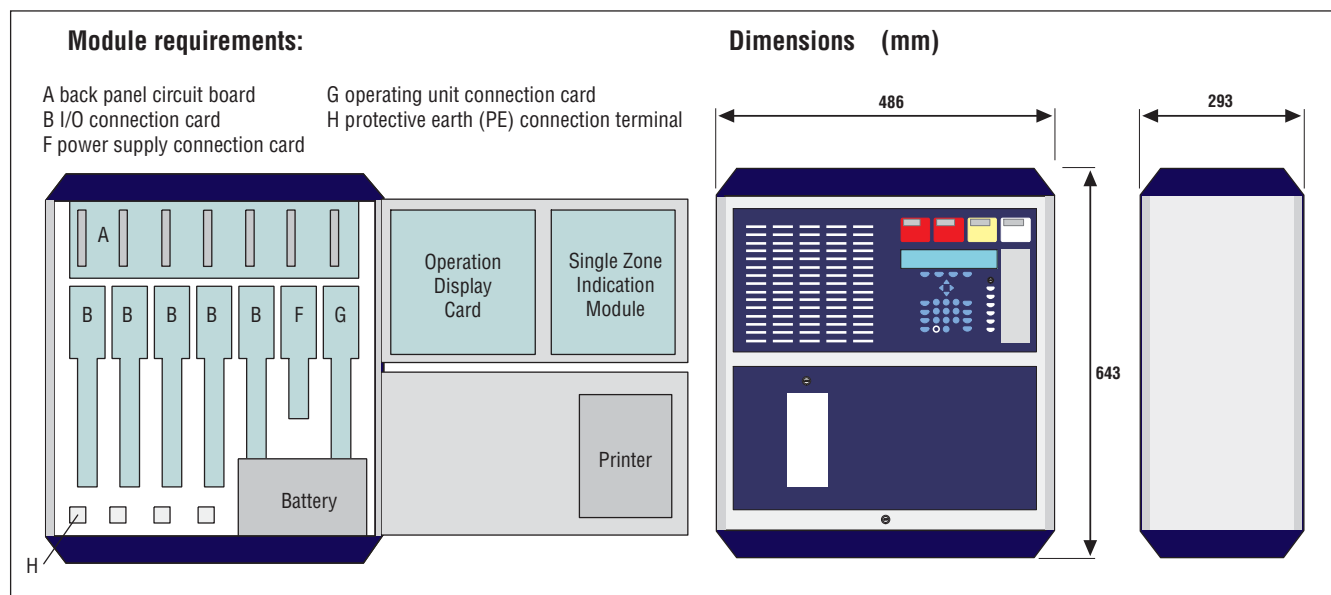
essernet module 62.5kBd   **Part No. 784840**
Network interface module for up to 16 network users. Protocol: similar to DIN 19245 - 1 (Profibus). Topology: loop structure, short circuit and open circuit resistant.

essernet module 500kBd   **Part No. 784841**
Network interface module same as 784840 essernet loop module, but for a maximum of 31 network users.

Module requirements:

A back panel circuit board
B I/O connection card
F power supply connection card

G operating unit connection card
H protective earth (PE) connection terminal

Dimensions   (mm)

Technical data

Mains voltage	230 V AC
Mains frequency	50 to 60Hz
Power supply	12 V / 7 A
Operating voltage	12 V DC
Quiescent current	400mA, for basic design
Current for external users	4 A
Emergency power supply	12 V/max. 2 x 40 Ah
Class of protection	I as per Din EN 60950-1
Ambient conditions	Class 2k5 as per IEC 72-3-3: 1994
Ambient temperature	-5 °C to +45 °C
Storage temperature	-5 °C to +50 °C
Dimensions (W x H x D)	485 x 619 x 283 mm
Weight	approx. 26 kg
Colour	grey, similar to RAL 7035, blue, similar RAL 5003
Type of protection	IP30
VdS approval	G 296046

Order information

	Part No.
Standard version	768308
19" version	768398
add-on housing included	768318
as package 8308	768428
as package 8308 with SZI	768418
as package 8308 with printer	768448
as package 8308 with SZI and printer	768408
as package 8318 with SZI and printer	768438

For further order data please refer to our "Fire Alarm Technology" product line catalogue.