ESSER
by Honeywell

Modular fire detection system FlexES rack mounting

- **Freely configurable functionality of modules used**
- **Increased availability via emergency redundancy function**
- **Integral emergency redundancy for up to 48,000 m² or 512 fire detectors**
- **Interfaces: essernet, USB, Ethernet, RS485, TTY**
- **Loop-powered alarm signaling unit via esserbus-PLus**
- **Cascadable power supply up to 450 W in accordance with EN 54-4**
- **Integrated interfaces for peripheral fire department equipment**
- **Galvanic isolation of analog loops possible**
- **Color 5.7" TFT display**
- **Capacitive keyboard for touch-sensitive operation**
- **Program-controlled night mode design, interactive keyboard menu**
- **Remote terminal cards for peripheral equipment**
- **Industrial assembly in heavy-duty drawers**
- **Two FlexES control fire alarm control panels can be used in one cabinet simultaneously**
- **Concurrent operation of esserbus and esserbus PLus**

New installation concept

The new concept for installation in an upright cabinet ensures that the FlexES control components and necessary peripherals can be installed in such a way that they are easy to service and save on space.

Individual drawers for central technology, power supply and emergency power supply ensure that the system components are installed in a clear and structured manner, where the installation takes place close to the floor at connection terminals.

These connection terminals can be attached to a mounting rail system at the right, left, front or back of the upright cabinet without the need for any auxiliary equipment.

The connection terminals and circuit boards are connected by means of assembled, plug-in connection cables, where all connection points are relocated close to the floor.

An upright cabinet with a minimum depth of 800 mm and a 19" fixing device for back and front is required for the installation
(Part No. 769165, 769166 incl. assembly).

With regard to servicing, the central module's integrated operating unit can be moved forward and locked in place, so all plug-in modules are easily accessible for servicing.

The required batteries and power supply units remain fixed in heavy-duty drawers, which can be removed in the case of servicing either for exchange or for taking measurements.

Certificates and standards:

The fire alarm system has been tested and approved in accordance with the following guidelines and standards:

- VDE 0100 – General regulations
- VDE 0833 – Hazard alarm systems
- DIN 14661 – Fire operating and indicating unit
- DIN 14662 – Fire indicating unit
- DIN 14675 – Fire alarm system design and operation
- VdS directives
- EN54 part 2, 4, and 13

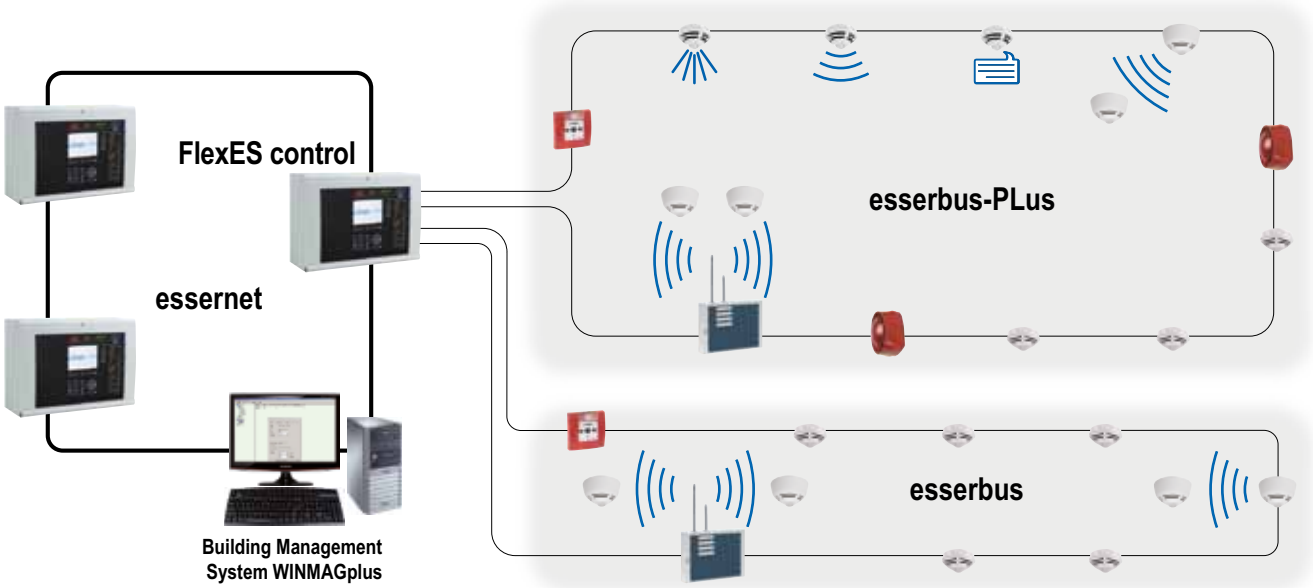
Safety through intuition

The new FlexES control central control unit also brings new features to the display and operating module. With the so-called night-mode design, only operating elements relevant to the function are displayed. This greatly simplifies the user interface. Tests have shown that even untrained users can perform their desired actions quickly thanks to the intuitive display. When in idle mode, the system impresses with its simple elegance, as the focus in on a neutral black front panel, ensuring that the central control unit can also be used readily in places where appearance is an important factor.

Through the use of the latest technology, the display and operating unit has a completely smooth, easy-to-clean surface.

The 5.7" graphic display can display more than just a customer-specific logo in normal mode; in the future, building plans can also be stored there, for example, providing response teams with a quick overview.

The display and operating unit contains five freely programmable function keys. These can be assigned control macros, enabling customer-specific additional functions and even making it possible for the FlexES system to be used outside the area of fire detection technology, for example for light and climate control. The keyboard release via access code means that the key switch is unnecessary.

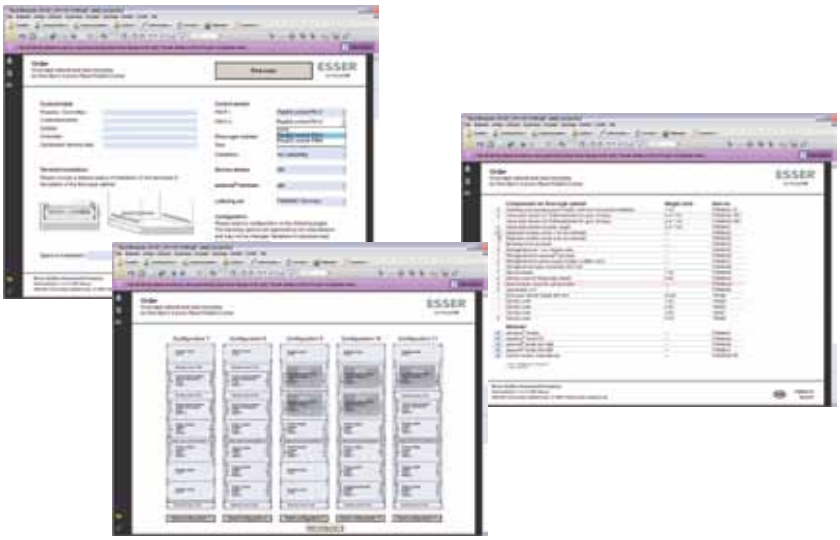


Redundancy

With the possibility to use a second control module in the FlexES control system in accordance with VdS standards, this system meets the redundancy requirements for monitoring areas that exceed 48,000 m² or contain more than 512 fire detectors, offering the possibility to control one extinguishing area for each loop.

Order form for easy configuration

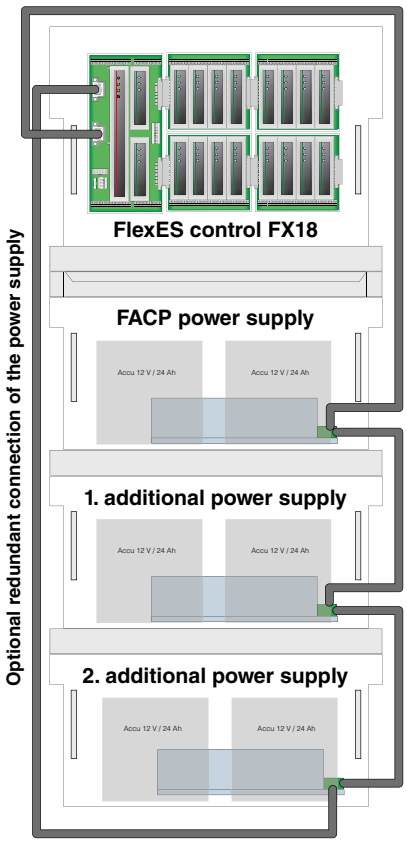
For easy configuration of an upright cabinet in a specific configuration, you should use the order form Part No. 798985.20, which is now available in our downloads area.



Power supply

By means of “cascading” power supply modules, a maximum power of 450 W with nominal voltage of 24 V can be supplied for each central control unit. Each power supply unit can monitor and track 2 x 2 batteries with 12 V/24 Ah or 12 V/12 Ah as required in order to fulfill the emergency power bridging time requirements. This yields a maximum battery capacity of 24 V/48 Ah per power supply unit, which can be increased up to 144 Ah with three power supply units. In this way, the system has sufficient power reserves for alarm areas, fire protection and display equipment, line-type smoke and heat detectors as well as other system detection and control settings.

In addition, power supply redundancy can be built in by means of looped wiring system. This also enables a “three-phase power supply” (400 V), providing the advantage of individual phase protection for each power supply unit. Even if one phase fails, two additional power supply units will continue to supply the system reliably.



Specifications

Nominal voltage	230 V AC
Nominal frequency	50 ... 60 Hz
Nominal current	0.8 A
Output voltage	24 V DC
Quiescent current	Approx. 192 mA (basic configuration without operating module)
	approx. 348 mA (basic configuration with operating module)
Current for ext. devices	3 A
Battery capacity	2 x 24 V/24 Ah
Ambient temperature range	-5 °C … 45 °C
Storage temperature	-10 °C … 50 °C
Protection rating	IP 30
Housing	Sheet steel, powder-coated or galvanized
Color	Gray, similar to Pantone 538
Drawer for central components	Approx.15 kg for basic configuration, approx. 17 kg (incl. operating module
Drawer for power supply	Approx. 17 kg without batteries
Dimensions operation unit FX10 / FX18	W: 440 mm H: 311 mm (7 HU) D: 420 mm
Dimensions power supply FX10 / FX18	W: 440 mm H: 222 mm (5 HU) D: 420 mm
CE certificate	0786-CPD-20903

Order information	**Part No.**
Basic models including software license	
Heavy-duty drawer for central installation with software enabled for up to 10 loops	FX808430.10R
Heavy-duty drawer for central installation with software enabled for up to 18 loops	FX808430.18R
Heavy-duty drawer for power supply, (5 HU)	FX808431
Components	
Redundant control module	FX808328.RE
FlexES control display and operating unit incl. Front frame (7 HU)	FX808324.19
Expansion module carrier 1 for remote terminal	FX808432
Expansion module carrier 2 for remote terminal	FX808433
Connection terminal for 230-400 V network connection	FX808438
Connection terminal for 2-4 module slots	FX808435
Connection terminal for essernet module, 62.5 kBd or 500 kBd	FX808436
Connection terminal for external UB	FX808437
Service drawer FX808439 esserbus / esserbus-PLus module	FX808331
esserbus / esserbus-Plus module GI (galvanically isolated)	FX808332
essernet module, 62.5 kBd	FX808340
essernet module, 500 kBd	FX808341
Dummy plate for heavy duty drawer (5 HE)	FX808440
Mounting rail set	FX808434
Service drawer	FX808439
Power supply	
Power supply unit extension, 24 V/12 Ah	FX808363
Power supply unit extension, 24 V/24 Ah	FX808364
3-way connector for cascading power supply modules	FX808330

For further order information, please refer to our FlexES product catalog.

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