

FlexES modular fire detection system in large housing

- Freely configurable functionality of modules used
- Increased availability via emergency redundancy function
- Integral emergency redundancy for up to 48,000 m²
- 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" graphic display
- Capacitive keyboard for touch-sensitive operation
- Consistent night-mode design, interactive keyboard menu
- Ample wiring space, alternate mounting position for transponders and adapters.
- Door hinge can be changed from left to right
- Concurrent operation of esserbus and esserbus PLus



Front panel with night-mode design

The new large housing design combines elegance with forward-thinking FlexES control technology.

Increased wiring space, even in the case of large extensions, facilitates clear installation.

For servicing work, the doors can be removed without the using tools and can be locked in place at the sides. This enables work to be carried out inside the housing, while the display remains visible and functional at all times.

The dimensions of the new large housing correspond to two first-generation housings assembled one on top of the other, whereby old and new can be easily combined.

New door design

The two-hinged housing side doors are a new feature, where the door hinge can be fitted either on the left or the right.



In operation: Doors locked.



Servicing: Doors opened and locked in side position.

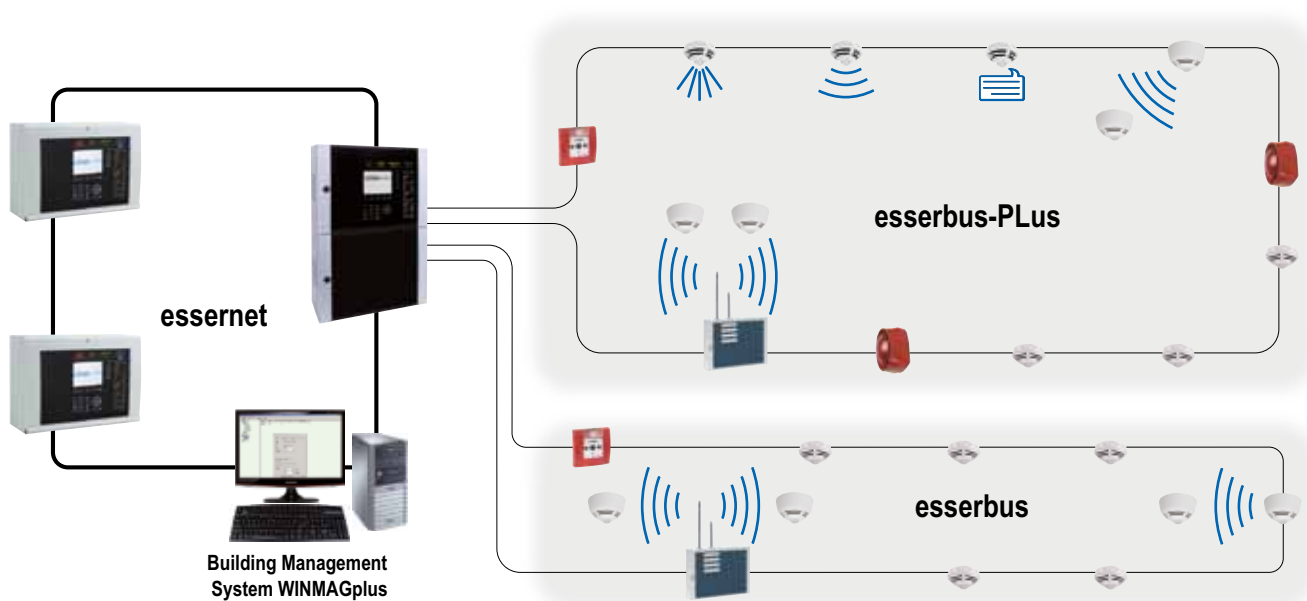
Safety through intuition

The new FlexES 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 operator guidance. Tests have shown that even untrained users can perform their desired actions quickly thanks to the intuitive display. When inactive, the system impresses with its simple elegance, as the focus is 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 panel features a completely smooth, easy-to-clean surface.

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

The display and operating panel features five freely programmable function keys. These can be assigned control macros, enabling customer-specific additional functions, 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 option for using 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.



Housing design

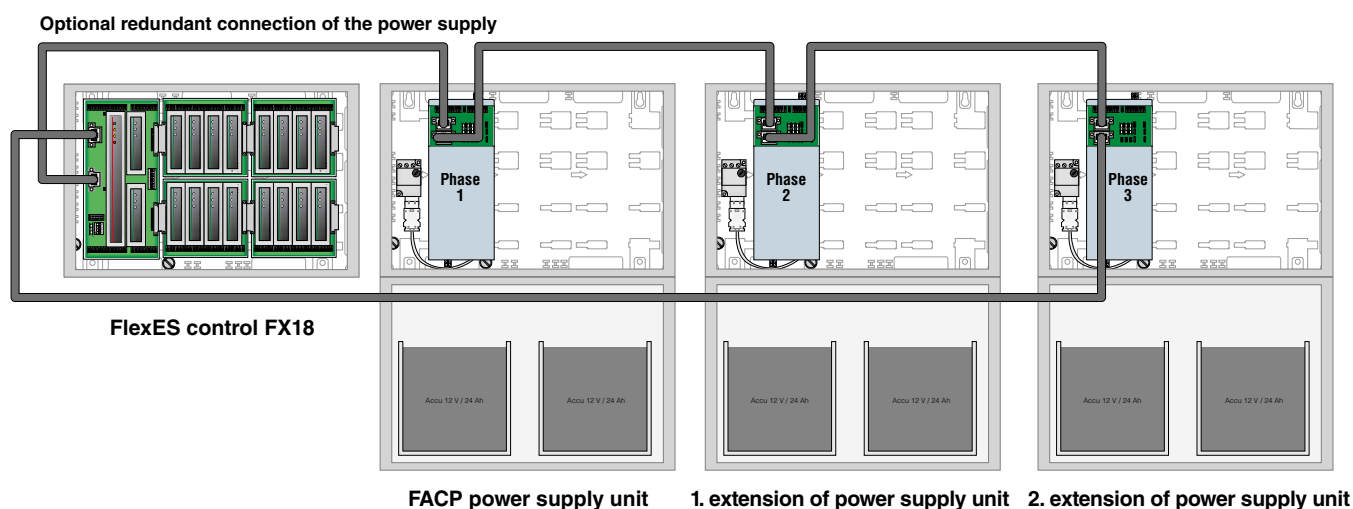
The housing for the FlexES control central control unit is available in different versions. For expansion of the system, housing types are available for the operation of 5 to 18 modules.

The FlexES control system can be configured as a standalone or network-ready central control unit.

Power supply

By means of "cascading" power supply modules, a maximum power of 450 W with nominal voltage of 24 V can be provided 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, the power supply can be designed redundantly by means of looped wiring. 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	ABS, 10% glass-fiber reinforced, V-0
Color	Gray, similar to Pantone 538
Weight	Approx. 15 kg (incl. plain panel) Approx. 17 kg (incl. operating module)
Dimensions	W: 450 mm; H: 640 mm; D: 185 mm
CE certificate	0786-CPD-20903

Order information

Part No.

Basic models including software license

FlexES control FX10 – 5 loops	FX808371
FlexES control FX10 – 10 loops	FX808372
FlexES control FX18 – 18 loops	FX808373

Components

Redundant control module	FX808328.RE
Display and operating panel for large housing (door hinge left)	FX808374.L
Display and operating panel for large housing (door hinge right)	FX808374.R
Door with blank in night-mode design	FX808375
Expansion module carrier 1 with 4 module slots	FX808322
Expansion module carrier 2 with 4 module slots	FX808323
esserbus / esserbus-Plus module	FX808331
esserbus / esserbus-Plus module GI	FX808332
essernet module, 62.5 kBd	FX808340
essernet module, 500 kBd	FX808341

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.

Expansion including 1 x power supply module, 1 x PS connection module, 1 x control module, and 1 x basic module carrier.