ESSER
by Honeywell




# A Soft (R)evolution

For a flexible future:
modular fire alarm technology by ESSER

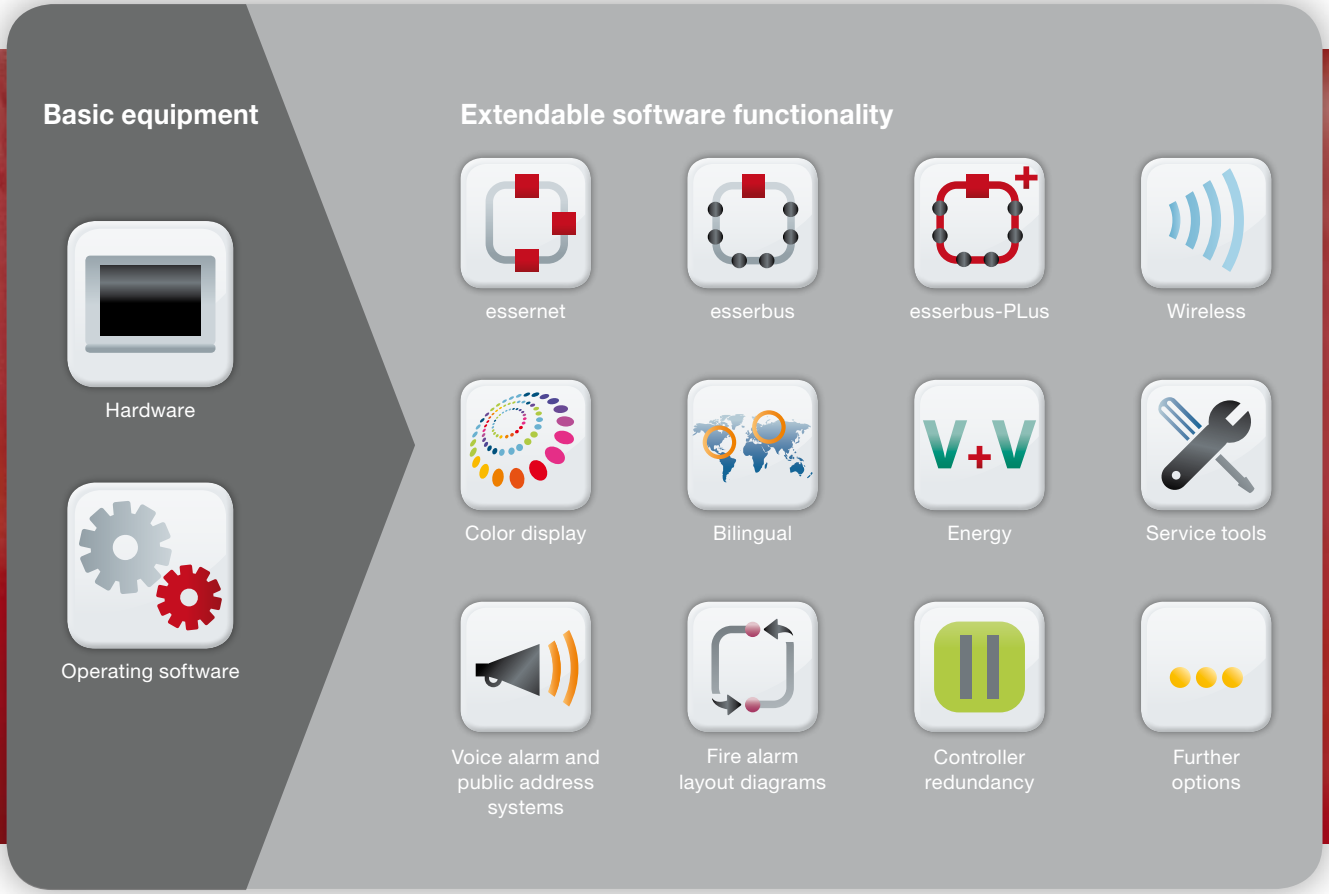
FlexES



# A new outlook for the future:

Future-oriented fire alarm systems need to fulfill a complex range of requirements, including customized configuration and needs-oriented expansion by flexibly enhancing the system with new functions and components as well as by ensuring downward compatibility. Further requirements are sophisticated housing design, user-friendliness and low life cycle and maintenance costs.

With a revolutionary new system ESSER has now met all of these expectations and completely redefined the future of fire alarm technology. FlexES gives you more freedom to plan, allows for independent cost structuring and offers flexible usage. The modular hardware and software concept makes it possible to individually design your fire alarm system and to enhance its capacity by adding hardware modules as you need them, including software




The FlexES concept: custom-made fire protection solutions consisting of modular hardware and a range of varying software options.

# FlexES

upgrades that help you expand and scale your system to precisely suit your requirements. This is our strategy to offer our customers exactly what they currently need: solutions just the right size to satisfy the needs of today that can be expanded at any time to meet those of tomorrow. Benefit from our sophisticated product and service portfolio with FlexES and plan cost-optimized fire alarm systems precisely customized to suit your needs and requirements.



# All options inclusive: FlexES

**Flexible control panel hardware is the basis for trendsetting fire alarm technology.**

With FlexES less is more: the functionality of the new control panel generation FlexES control is based on six different pluggable modules that can be simply and quickly installed, exchanged or extended according to the plug-and-play principle. This modular system concept enables you to provide any range of functions currently required at low hardware cost.

The intelligent hardware architecture not only reduces the cost of storage, it also optimizes the availability of spare parts, thus minimizing maintenance costs.
With various types of housing FlexES control can be optimally expanded as the need arises: from the economical solution for small buildings to a system expansion that includes up to 18 modules.



**FlexES control FX10|18:** plenty of space to add up to 18 modules.



**FlexES control FX2:** the small housing variant provides ample space for additional wiring despite its compact size.

# control

## The modular principle. Your benefits:

- The automatic recognition of hardware modules makes installation easy and speeds up commissioning
- The modular hardware concept enables you to react quickly to any changes required and simplifies planning, if usages change
- Even in the event of unforeseen changes FlexES allows you to convert and expand the system at low cost



Each of the FlexES modules are autonomous, encapsulated units protected from damage by a robust housing.

## FlexES control characteristics:

## A comparison of variants

| | FX2 | FX10 | FX18 |
|---|---|---|---|
| Module slots | 2 | 10 | 18 |
| Night design | x | x | x |
| Mixed operation esserbus / esserbus-PLus | x | x | x |
| Loops are simultaneously activated | x | x | x |
| Plug-and-play hardware modules | x | x | x |
| Modular expansion concept | x | x | x |
| One-man revision | x | x | x |
| Cascadable power supply modules | x | x | x |
| Software options | x | x | x |
| Controller redundancy | | x | x |
| Bilingual display screen (switchable) | x | x | x |
| Color display | x | x | x |
| Wireless | x | x | x |



# Choose functional aesthetics

**FlexES control will convince you with its user-friendliness and sophisticated design.**

The new generation of control panels can be conveniently operated via a graphic display with a smooth user interface. The so-called night design ensures that only those elements are displayed that need to be operated in the interest of functionality. This means that even untrained users can operate the panel intuitively and without errors. The 5.7" display is also able to show graphics, layout plans as well as escape and rescue plans, making it easier for the fire department and rescue teams to find their way. Variably usable function keys provide additional convenience, for example for light control, and a switchable bilingual display.

FlexES control can also be used as an external operating module. Thus it provides a wide range of (remote) control functions for both control panels and networks. Due to its compact, high-quality housing design, you can even use all of FlexES control's functionalities in public access areas.

1 Antiglare night design
2 Backlit indicators
3 Ergonomic user guidance
4 Touch-sensitive capacitive keypad
5 5.7" color graphic display
6 Keypad release via access code for all operating levels
7 Customizable function keys
8 Single zone indicator unit with background indication
9 Multi-language lettering via inlay foils
10 Pictograms for definite verification



## Rely on our future principle.

Apart from the innovative hardware architecture, the FlexES system uses a software platform permitting the modular extension of the system's capacity and functions at any time. The operating software is based on a standard industrial solution. You thus benefit from version updates, additions and extensions in terms of speed, stability and actuality. In other words, you have the best possible system at all times. With respective software options, the desired additional functions and extensions are activated in the control panel.

## Extending instead of replacing.

**An overview of the software options:**

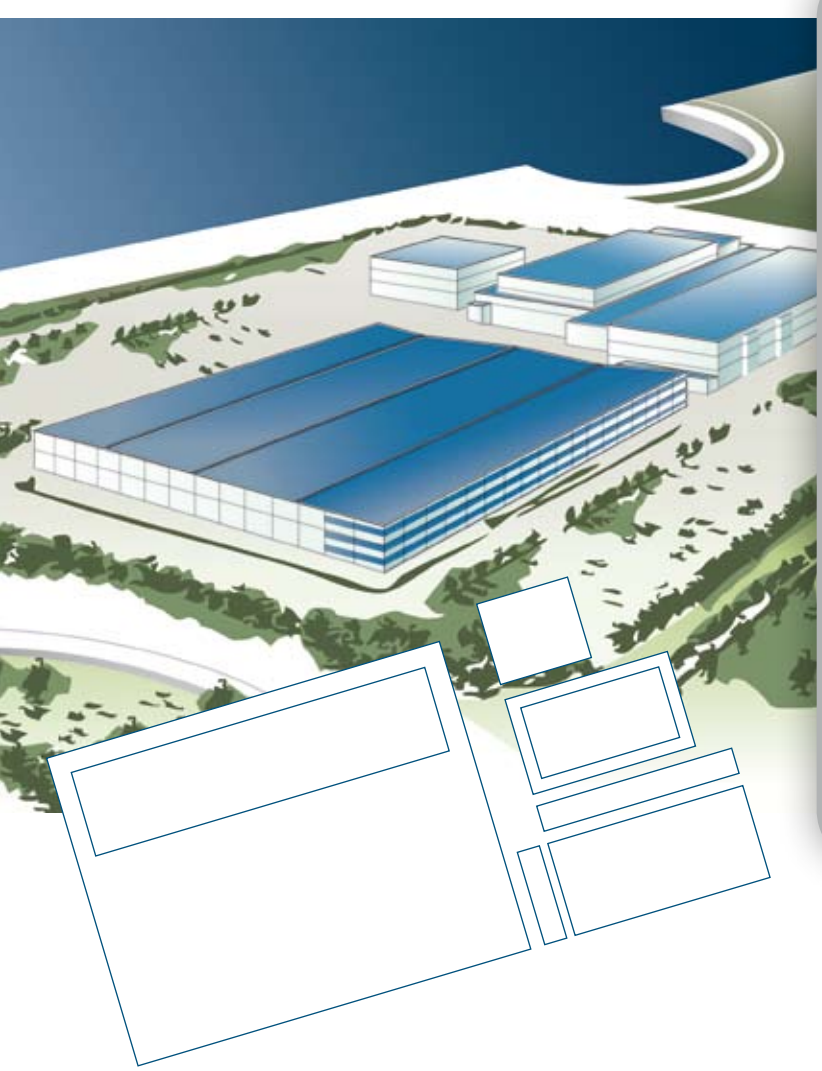
- essernet for linking multiple control panels
- esserbus for connecting up to 127 bus devices
- esserbus-PLus for connecting bus-supplied signaling devices
- Wireless technology for integrating wireless components
- Color display for increased clarity
- Energy for demand-oriented system extension
- VA/PA interface for connecting voice alarm and public address systems
- Fire alarm layout diagrams for an improved overview
- Controller redundancy for more system security
- Service tools for optimum maintenance
- Bilingual switchable display



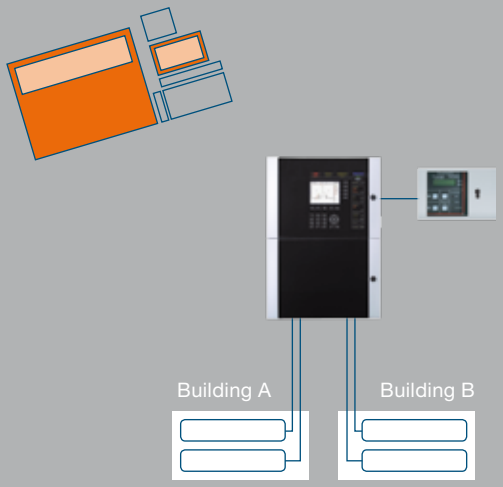

1 Bilingual display screen

2 Custom function keys/additional light





### 1st configuration phase



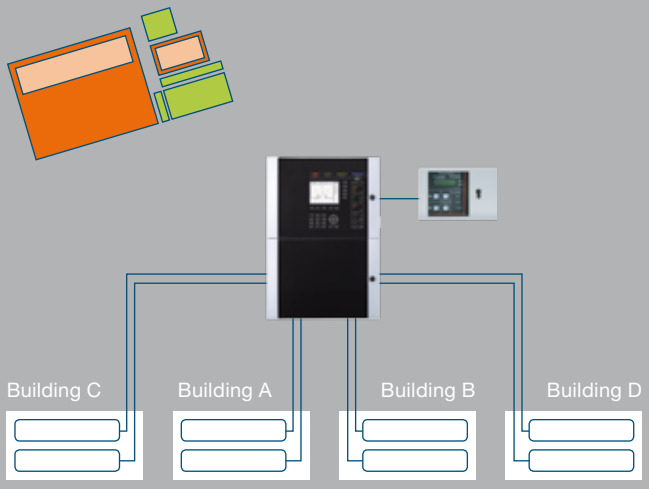

FX18 incl. operating system | 4x esserbus modules | 3x software esserbus | 1x software esserbus-PLus | 1x software multi-criteria detector | 1x software fire department option

# Planning the conversion

The FlexES allows demand-oriented planning and convinces with its gradual adaptation to changing conditions, e.g. in the event of building extensions. The modular expansion concept and economical installation and maintenance options ensure cost savings and cost transparency throughout the system's entire life cycle.

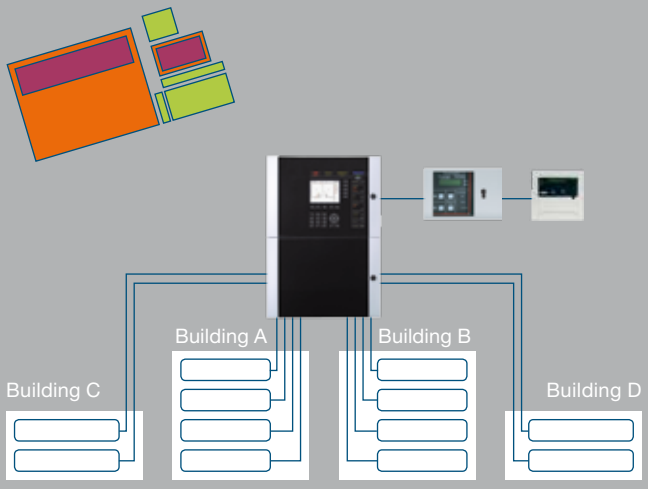
- Accurate system configuration with flexible conversion and upgrading options
- System extension for up to 18 modules
- Cost-effective maintenance (remote diagnosis tool ReCo, one-man revision)
- Fast system adaptation possible in the event of usage change
- Mixed operation of esserbus and esserbus-PLus simplifies migration
- Cascadable power supply units for demand-oriented capacity expansion reduce additional costs
- Downward compatibility allows integration into existing systems
- Controller redundancy for higher-level security requirements

## 2nd configuration phase




1x extension module carrier | 4x esserbus | 1x LCD indicator panel | 4x software esserbus-PLus | 1x software multi-criteria detector | 1x software indicator panel

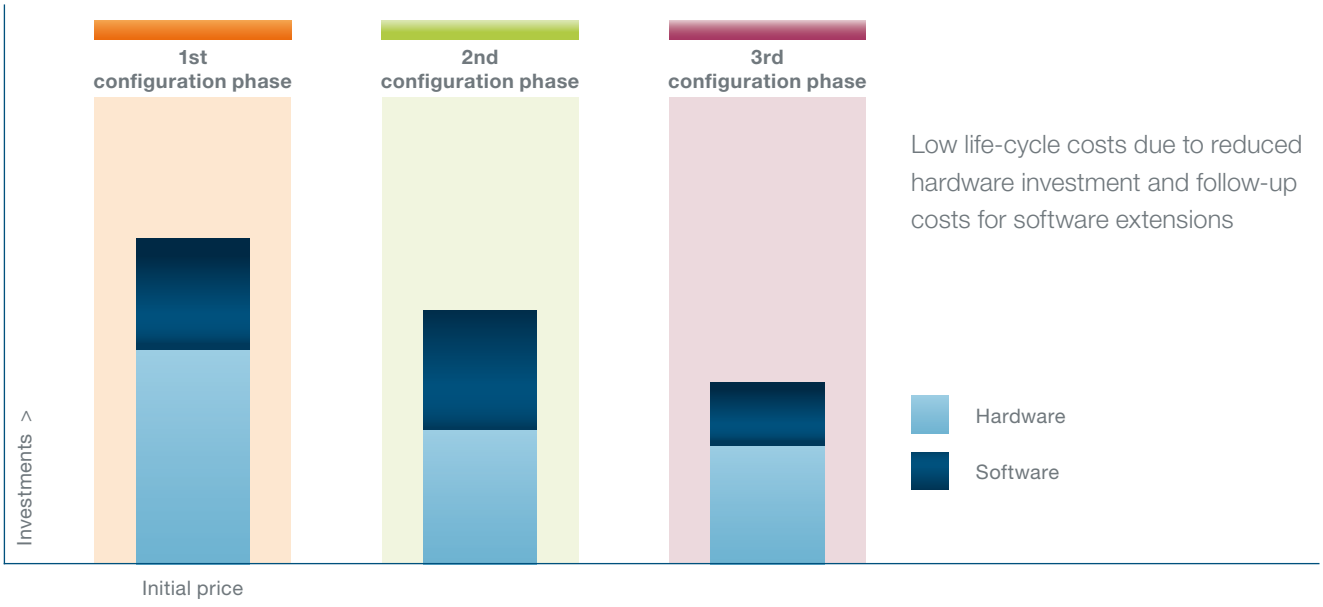
## 3rd configuration phase




1x extension module carrier | 1x control module | 4x esserbus | 4x software esserbus-PLus | 1x multi-criteria detector | 1x software redundancy



## The economical FlexES concept:




Low life-cycle costs due to reduced hardware investment and follow-up costs for software extensions

# Trust in our knowledge and ex

**ESSER has been setting standards in fire alarm technology ever since the company was founded. Our customers are the measure of all things in everything we do.**

The experiences and needs of our customers are the impulses that drive innovation. The standards of quality at ESSER, however, are not only limited to the development of high-quality products. We think in an integrated and customer-oriented way. Our technologies are just as proven as the partners with whom we cooperate: certified FlexES partners have been intensively trained by us, are highly familiar with the new system and always find the best solution to suit your requirements.

VdS-approved and always informed of the latest state of the art, they are highly competent when it comes to consultancy.

You can always rely on the knowledge and experience of our partners and benefit from long-term supply and service guarantees. Place your trust in us and share the success of a unique system together with us.

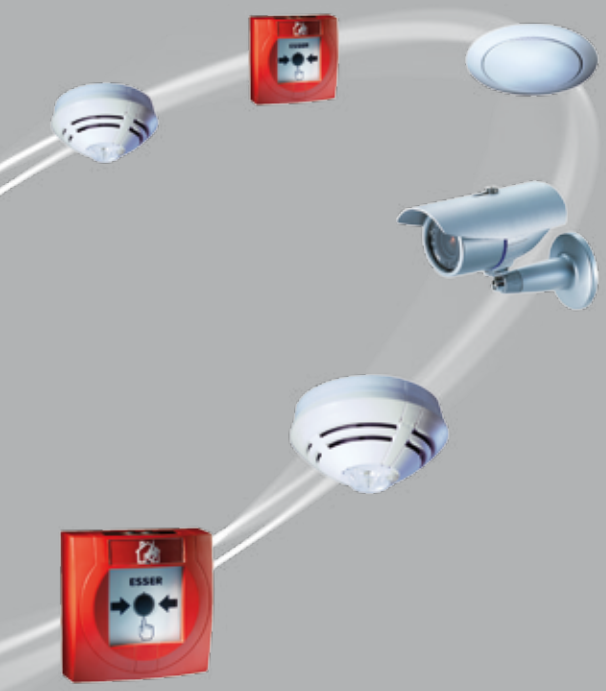





# perience

## The future begins today – ESSER thinks ahead.

Fire alarm technology and evacuation are continually growing closer together. Complex voice alarm systems are becoming key elements. We also took this fact into account when developing FlexES. Take a look into the future together with us:
The innovative technology of a new twin-wire loop will revolutionize data transmission at field bus level. The FlexES bus will not only be able to transmit signals but also pictures and speech – due to two varying transmission speeds that are attuned firstly to the transponder and the detector (low speed) and secondly to the camera and speech modules (high speed). In future, up to 250 devices per bus (instead of 127 until now) can be operated on one loop. Initialization is completed within 60 seconds, considerably reducing overall commissioning time. A special tool for identifying and visualizing wiring errors also additionally reduces the time needed. Our plan for the future has a name: FlexES.




**FlexES com: the new way to transmit data.**

- Initialization within only 60 seconds
- Very short switching and reaction times
- Broad range of possible uses in building automation
- Two different transmission speeds on the loop
- Linear heat detectors (LHD) supplied directly via the bus
- Length of transmission line over 3.5 km
- Radial operation possible
- Up to 250 bus devices on one loop
- Identification and visualization of wiring errors



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