ESSER
by Honeywell

New dimensions in fire detection technology

FlexES control:
the dawning of a flexible, trendsetting system

Flexible: the concept

One control panel—many possibilities
Fire protection solutions are as individual as are the objects they are planned for. Their realization depends on various parameters: Compensation of structural deficits, fire protection standards, cost reduction for maintenance and servicing, prevention of false alarms, flexible possibilities for expansion, as well as individual requirements for each single object have to be balanced out every time.

With the FlexES fire control panel by ESSER, fire detection systems can be realized which are precisely tailored to the customer's needs. The control panel can be flexibly expanded at any time, and covers the whole range of possibilities from the smallest model to the 18-module variant, for solutions which are not over-sized today and are expandable at any time in the future.
The modularity of FlexES control ensures easy integration of new components, so that only one single platform is necessary for all functions. In this way, a safety infrastructure can be created step-by-step which conforms exactly to the respective needs.

Less is more
Only a restricted number of modules is needed in order for FlexES to provide a full range of functions. This minimizes the storage costs for the installer. On the one hand, financial advantages result from the economic software licensing model, and on the other hand from the option of being able to assemble the fire control panel directly on site with the customer if necessary. The installer can thus offer individual solutions at a fair market price. To the planner, the flexibility facilitates exact planning of the project. And for the customer, FlexES guarantees long-term protection of his investments: Adjusted to increasing size and complexity of the building to be protected, the control panel can be unproblematically expanded and/or supplemented at any time.

Installer

Planner

Operator

User-friendly: the operating panel

Safety through intuition

An intuitive operating concept makes the programming and control of a fire alarm control panel easier. Moreover, it facilitates quick reaction in dangerous situations. This is supported e.g. by the fact that the operative steps which need to be taken are immediately recognizable. In addition to the ergonomics, aesthetic aspects play an increasingly important role.

Aesthetic and functional

The FlexES control HMI (Human Machine Interface) takes both aspects into consideration: The controlling of the fire alarm control panel is carried out comfortably via a Touchdesk with a flat surface. As long as no dangerous situation occurs only the aesthetically high-quality surface is displayed (night design). Should a situation occur, only those keys are illuminated which are intended within the framework of the required functionality. This ensures intuitive operation even for inexperienced users.

The ¼ VGA LCD color display also allows for the display of graphics and building plans. These data can additionally be transmitted to a cell phone or online in order to inform emergency services in advance. Moreover, the HMI can also be used as a remote operating unit. Thus, it offers extensive (remote) control functions for control panels and networks and saves the use of an additional control panel.

The advantages at a glance

- Keyboard release via code (no key-operated switch necessary)
- Intuitive operation
- Design which meets high-end requirements
- Individual assignable function keys
- Conforms to EN 54-2
- Backlit, touch-sensitive keys and function keys
- Large ¼ VGA LCD (color) display
- Single zone indicator units
- Various languages via insertable strips
- Flat operating surface

Future-proof: the modules

Ready for anything

The FlexES functionality is based on pluggable modules which can be easily and quickly installed, exchanged, or supplemented through the plug-and-play principle. Should usage changes or building expansions occur, the system can be adjusted to the new requirements at any time. All functions and interfaces are integrated into the respective modules.

Expand easily—any time

The individual modules are automatically read by the control panel without any additional settings. This not only significantly reduces the start-up times but also helps to avoid installation mistakes during exchange or expansion. As autarkic enclosed units, the modules are also protected from damage by robust housings.

The advantages at a glance

- Easy exchange/easy supplementation of modules
- Automatic recognition through the control panel, allocation not necessary
- Only one module for esserbus and esserbus-PLus bus types (upgrade via software)
- All functions and interfaces are integrated (USB connections, RS485 interface for fire department periphery)
- 24 volts for external devices
- Up to three power supplies are cascadable (up to 450 watts of power)

Power supply module (24 V DC)

The power supply module provides the supply voltage of the fire alarm control panel and provides 24 V DC for external devices. The maximum connectable accumulator capacity amounts to 24 Ah. A total of three power supplies can be cascaded.

Basic module

The basic module is part of the basic configuration of the fire alarm control panel. The slot for the CPU module as well as two module slots are located on the basic module.

Controller module

The CPU module controls the fire alarm control panel function and provides connection possibilities (relays, interfaces) for external connections.

Extension module/micro-module

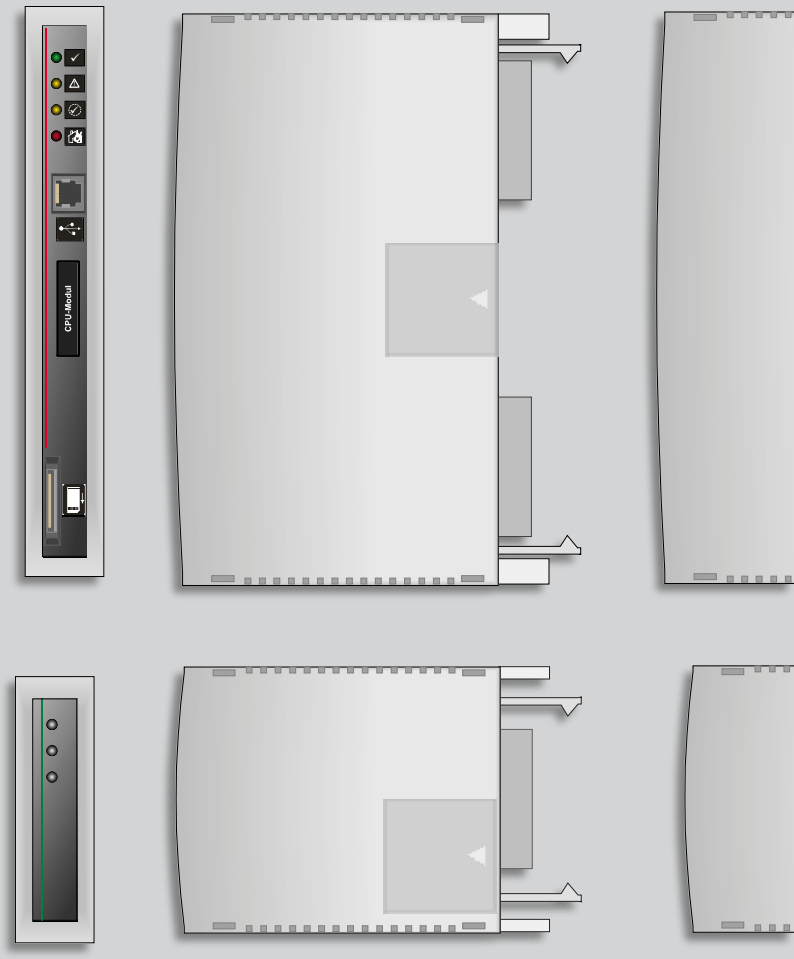
The extension module 1 provides four slots and respective connection terminals for freely selectable modules. A total of two times two extension modules (= 16 module slots) can be connected to the two slots of the basic module.

esserbus-/esserbus-PLus micro-module

This module facilitates the connection of an analog loop. Depending on the configuration and/or the number of available module slots, up to 18 analog loops are supported in one control panel. A significant advantage results from the possible mixed operation of esserbus and esserbus-PLus modules in the FlexES control.

essernet module

The essernet module is meant for the networking of several fire alarm control panels and network-compatible components via the essernet network. The modules are available in two designs with different transmission speeds (62.5 or 500 kbit/s).



Expandable: the housing models

Ready for future growth

The FlexES control panel housing is available in different sizes and modern designs and offers an exceptional amount of space for wiring through remote connection technology, even in its smallest model. Generally, several design and housing models for operating two to 18 modules are available for system extension. Depending on the configuration, one expansion housing for the accumulators as well as one additional power supply (optional) is necessary. The extension modules can be plugged in various ways in order to enlarge the wiring space for cables if necessary. Both the mounting of the housing as well as the inserting of the circuit boards and modules is easily achieved.

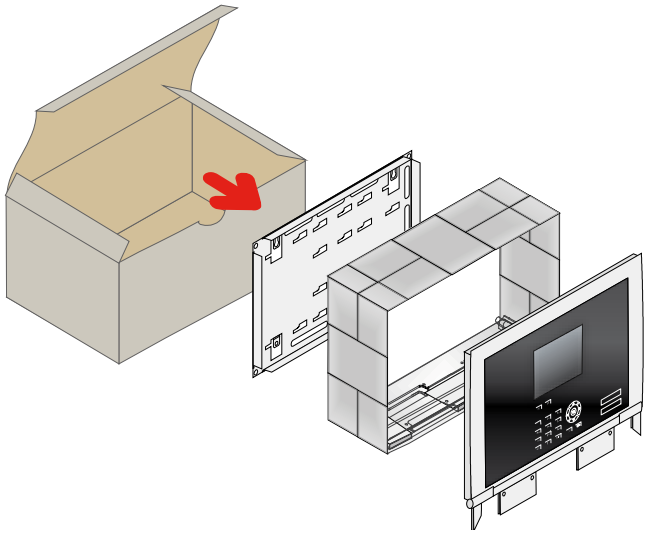
FlexES control can be configured as a stand-alone or as a networkable control panel. The connection of other systems such as the voice alarm system (VA/PA) is possible via the network and/or via separate interfaces.

Migration possibility included

FlexES control supports the essernet and both esserbus and esserbus-PLus field bus models. This makes the migration of old systems easier. If additional control panel redundancy is required, this requirement can be fulfilled by simply adding a second controller module.

In the basic configuration, the control panel consists of the following modules:

Power supply module
Connection module
Basic module
Controller module
Compact housing
or large housing



The advantages at a glance

- Modular housing in large and small design
- Flexible module arrangement
- More space for wiring
- Stable rear wall for distortion on uneven surfaces

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