Honeywell | Building Products FIRE

The fire alarm control panel that adapts to your project

FlexES Control

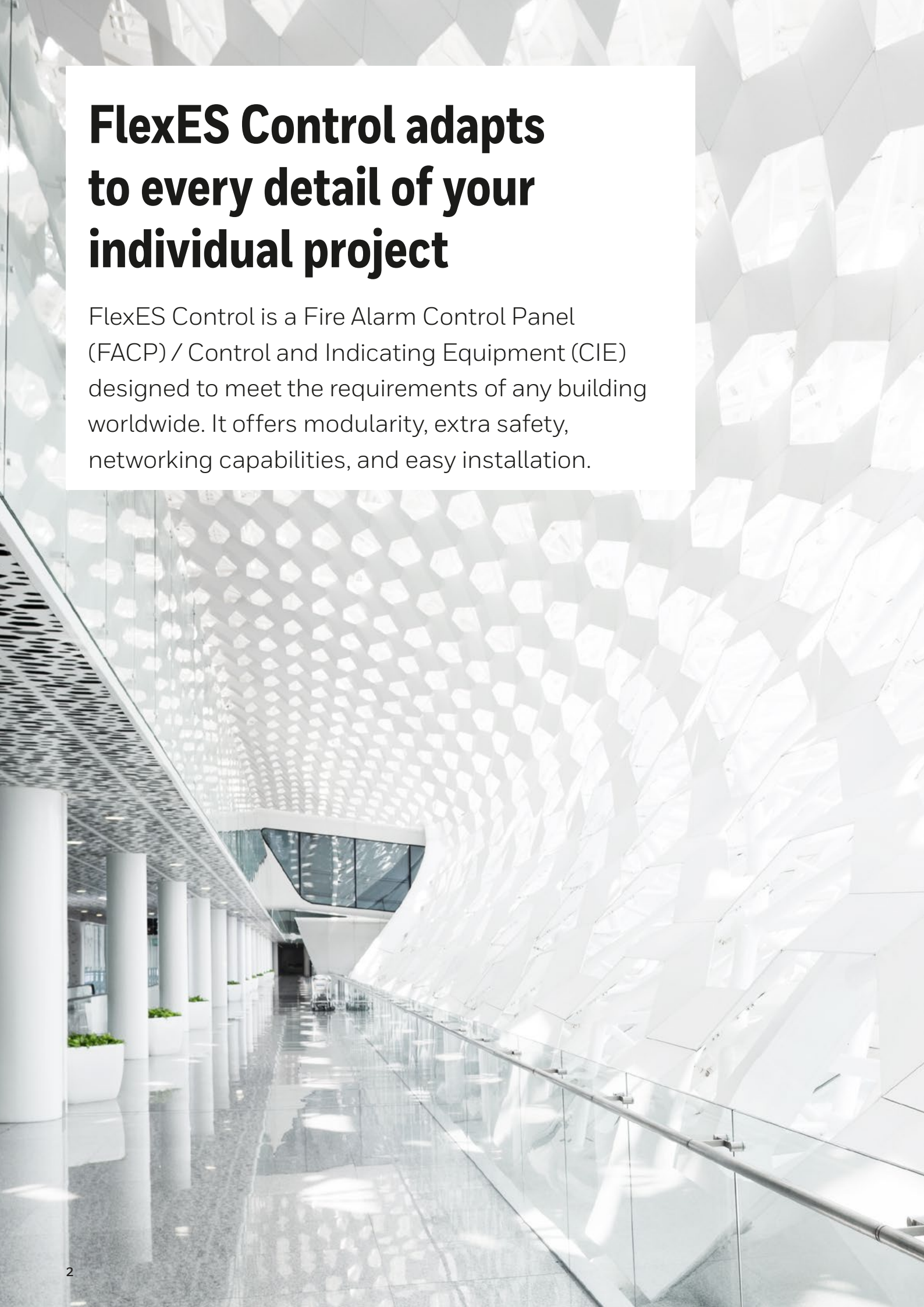
FM APPROVED

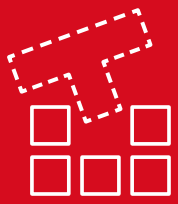
EN54 COMPLIANT

VdS

FlexES Control adapts to every detail of your individual project

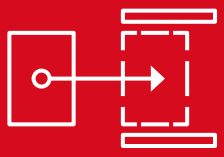
FlexES Control is a Fire Alarm Control Panel (FACP) / Control and Indicating Equipment (CIE) designed to meet the requirements of any building worldwide. It offers modularity, extra safety, networking capabilities, and easy installation.





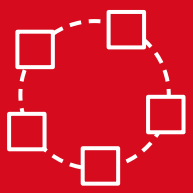
Modular design for maximum flexibility

Thanks to its modular hardware and software, you can easily adapt the fire alarm control panel to growing requirements at any time. → **page 4 – 5**



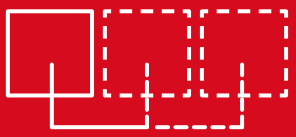
19” setup for robust design and economic installation

Standardized 19" rack format elements support installation and maintenance by providing optimum accessibility. → **page 8 – 9**



Optimal networkability via essernet® and esserbus®

The essernet® lets you network and monitor several FACPs remotely. esserbus® connects all devices on the loop. → **page 6 – 7**



Multiple redundant systems for the highest reliability

Cascadable power supply and redundant controllers make your fire detection system even more fail-safe. → **page 10 – 11**

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Certified for all major global standards

FlexES Control is certified for the EN54 standard as well as for VdS and FM guidelines. This enables owners and operators to comply with insurers requirements.

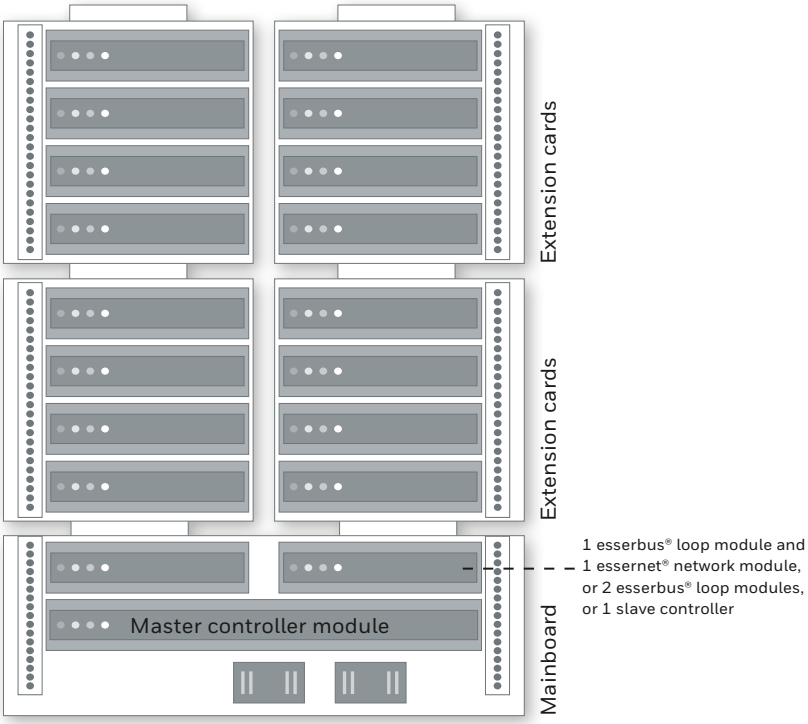
Modular concept for unlimited options

With FlexES Control, fire detection systems can be tailored precisely to your current and future requirements. For solutions with the right size for today and full scalability for tomorrow.

As much expansion as you need

All functionalities are delivered by only six different types of modules. With its 18 module slots, FlexES Control offers all the space you need for expansion:

- You can install e. g. 18 esserbus® loop modules (or 17 esserbus® loop modules and one essernet® network module).
- Each esserbus® loop can be used for up to 127 loop devices.
- One system in total can support up to 2,286 digital loop addresses.

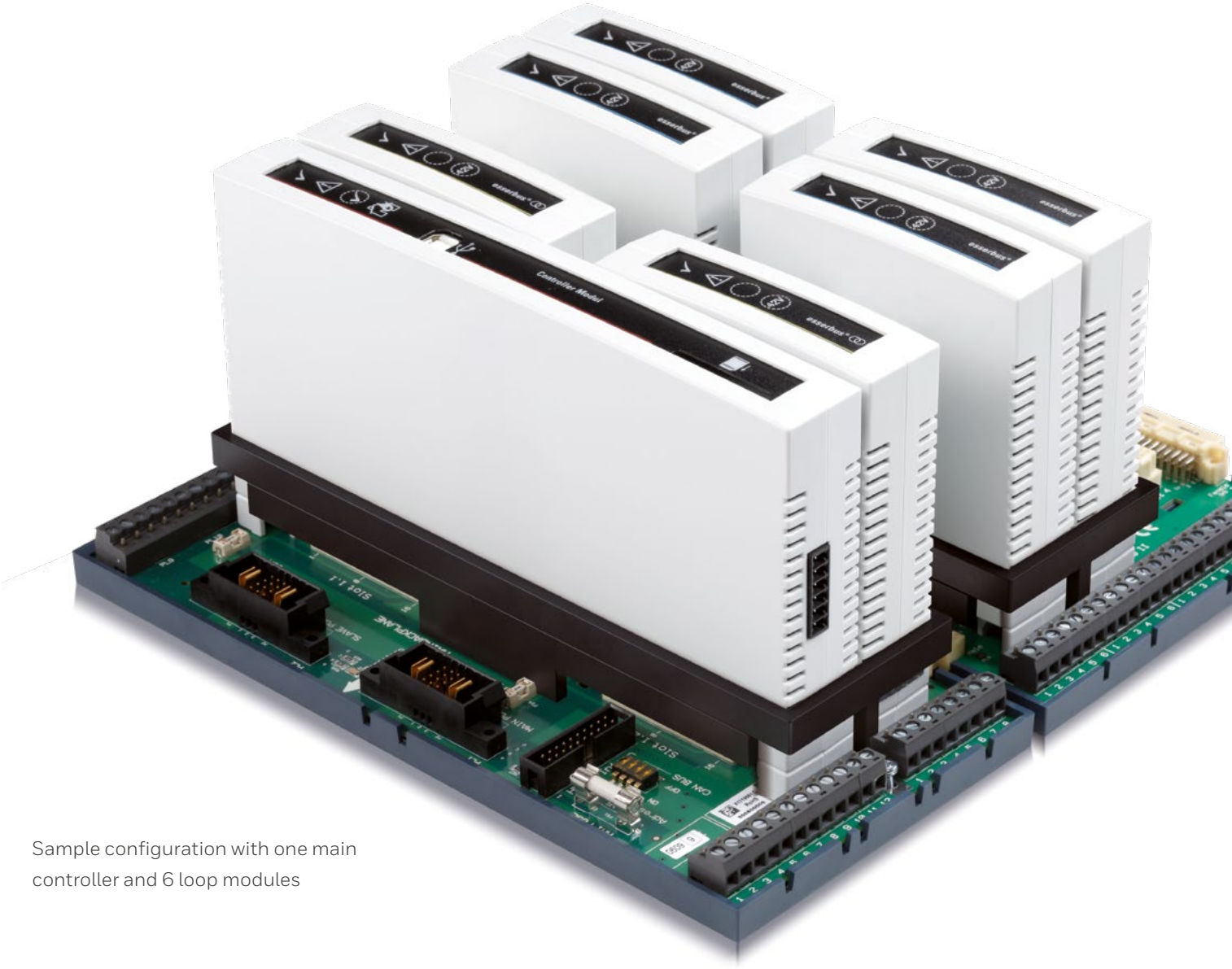


Hot-pluggable modules, lower costs

All modules are hot-pluggable, which means they are fast and easy to install, replace, or expand in operation. You do not have to power down the whole system when adding or replacing a module. This allows for lower maintenance costs.

Reduced expenses, higher availability

This modular concept means you get a full range of functions without a lot of costly hardware. Its intelligent hardware architecture reduces inventory expenses and optimizes the availability of spare parts.



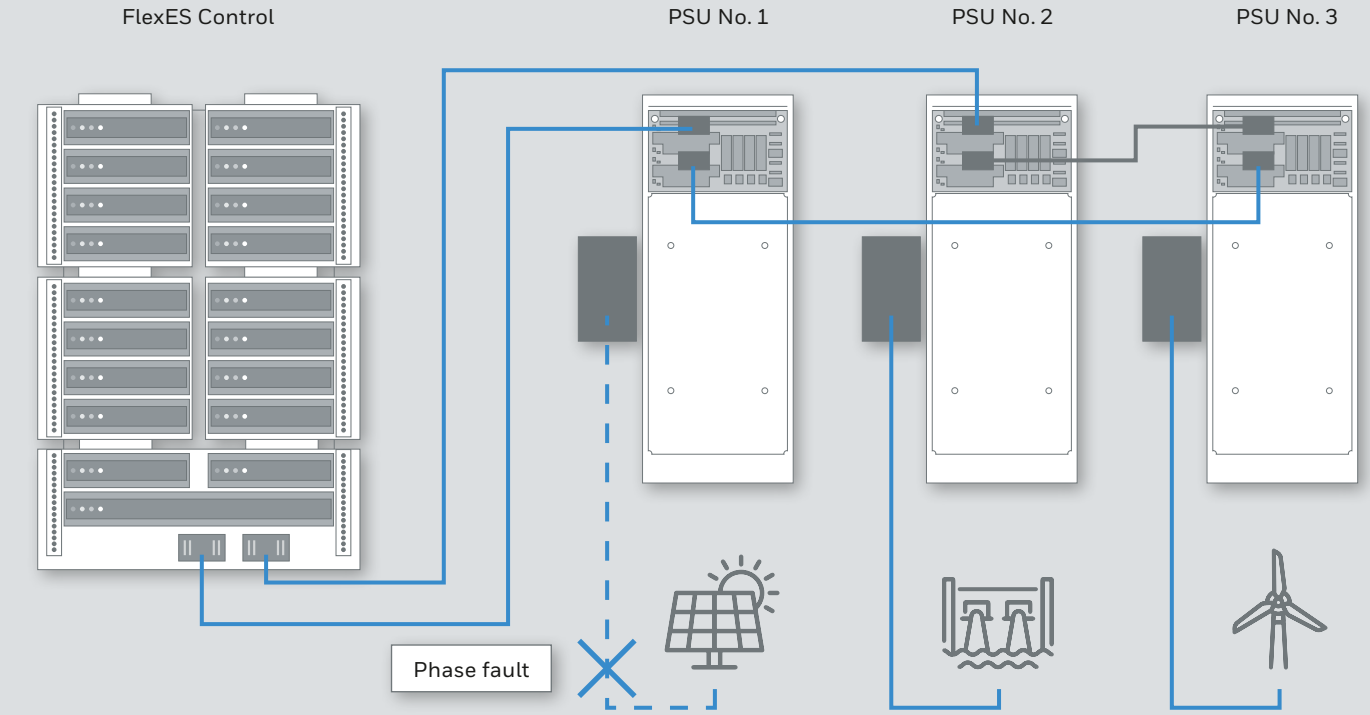
Sample configuration with one main controller and 6 loop modules

Quick Info Modularity

- 18 module slots per FACP / CIE
- Loops are started in parallel
- 6 hardware modules for diverse functionalities
- Hot plugging and automatic module recognition
- Seamlessly scalable from 1 to 18 detection loops
- Up to 31 FACP / CIE in an essernet® network

An emergency redundant system for safe reliability and the highest availability

The Power Supply Unit (PSU) as well as the control processors are redundant, modular, and cascadable in the FlexES Control system. Thus, the system offers you the highest reliability and availability.

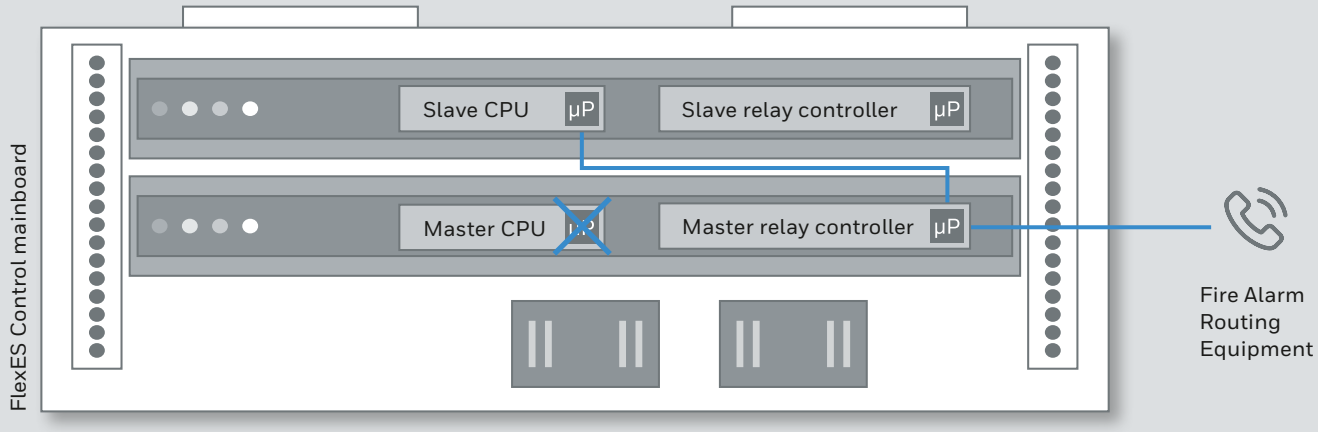


Fail-safe operations: Three different power sources ensure operation even if one is lost.

Reliably powered, globally approved

FlexES Control is the innovative Fire Alarm Control Panel (FACP) / Control and Indicating Equipment (CIE) with integrated, EN 54 plus VdS and FM approved emergency redundancy.

The power supply of FlexES Control is particularly well protected against failure. It is designed to handle three different power sources in a loop. If one power supply module fails or a phase fault occurs, the remaining two power supplies ensure uninterrupted operation.



Always on the safe side: If the master CPU fails, the slave CPU takes over and ensures that alarms are still safely transmitted.

Securely available due to a redundancy controller module

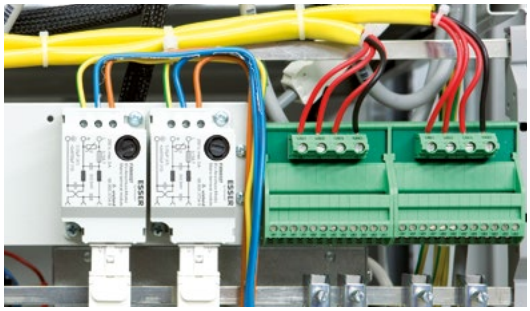
Many countries require a full controller redundancy per installation and operation standards above a certain monitored area. For this purpose FlexES Control has an optional redundancy controller module in its standard configuration. It seamlessly takes over the operation in case of a main controller module failure.

Quick Info Redundancy

- Highest reliability & availability
- Cascadable power supplies
- Emergency redundancy
- Hot standby operation of the redundancy controller
- Uninterrupted operation if the redundancy controller takes over

19" rack design makes it so easy for you

Not only in industrial installations but also in fire detection systems, the installation is side by side with other building installation and control systems in electrical control rooms: The 19" rack mounting solution offers you a wide variety of benefits.



Professional cable routing

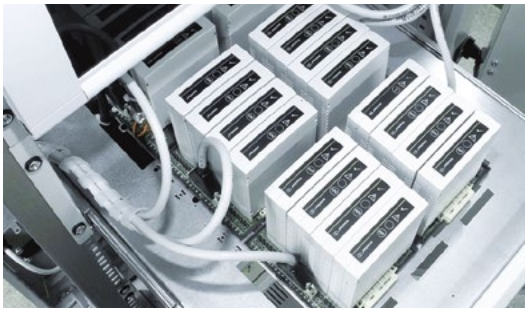
Various options for cabling (flush or surface mounted, through cable ducts, or in-conduit designed to maintain function) provide the highest flexibility for industrial applications. The area for connecting peripherals is placed in the lower part of the cabinet, where it is easily accessible.

Heavy-duty trays

All trays in the cabinet run on ball bearings. They can be removed during maintenance and support easy service work.

Operating panel

The operating panel swivels on its tray and is thus particularly easy to install and wire.



Easy maintenance

Modules can be easily installed, serviced, and exchanged inside the heavy duty trays.

Even more advantages available

- The optional service tray for laptops enables easy maintenance
- Space saving installation with trays
- 11 pre-defined rack mounting assembly variants

Optimal connection with essernet® and esserbus®

The well structured connection in between and inside FlexES Control systems comprises two standards that deliver a highly professional solution.

essernet® connects multiple FACP units

To connect several control units and network components across extensive building complexes, the essernet® network offers the perfect solution. Each essernet® can handle up to 31 FACP / CIE in a fault tolerant net configuration. Distances of up to 20 km can be achieved by using fiber optic converters between network nodes.

esserbus® for addressable components

esserbus® is currently the most secure and economic form of field bus for alarm systems. It follows a simple principle: All system components are exclusively and fully addressable on the loop. This enables you to get information about each single component via the bus system.

Quick Info esserbus®

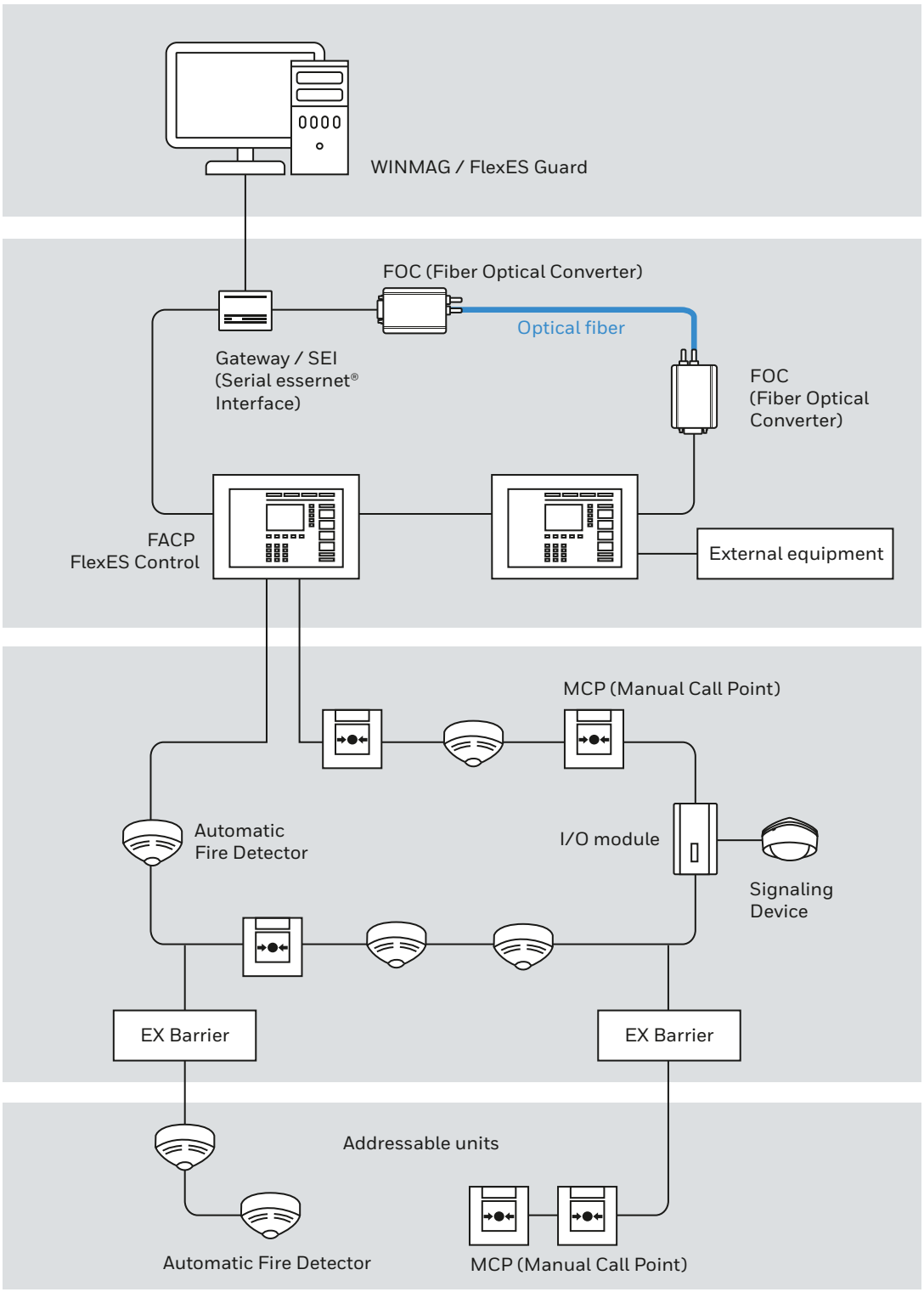
- Up to 127 devices on the esserbus®
- Detectors, manual call points, and I/O modules on one loop
- Allows for a maximum length of up to 3.5 km
- All loop devices with integrated loop isolators
- Loop and devices are tolerant against short circuit and wire break

BMS / Building Management System

Ring topology: essernet®

Fieldbus: esserbus®

Hazardous area (EX zone/ATEX)



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