EcoStruxure™
Innovation At Every Level

Reducing risk in high-hazard operations

EcoStruxure™
Triconex®
Fire and gas systems

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High integrity fire and gas solutions

Fire and gas systems are a vital mitigation layer of protection and are critical to the safe operation of any industrial asset, especially those in high-hazard industries handling combustible gas, toxic gas and explosive substances. Detecting and minimizing the effects of such abnormal conditions is critical to the success of your business, protecting people, production, and profits from potentially disastrous consequences.

As a world leader in safety, our comprehensive blend of safety certified products, together with our team of safety professionals, make us the ideal partner for your fire and gas needs. Schneider Electric offers the world's leading triple modular redundant (TMR) safety systems, with over 18,000 systems operating safely for more than 1 billion hours in over 80 countries

Take advantage of EcoStruxure Triconex® Fire and Gas solution benefits

Schneider Electric represents the best possible decision for your fire and gas needs resulting in:

- Safer, more reliable, uninterrupted operations
- Increased plant uptime, minimum unplanned downtime, and potential production loss
- Less costly harm to plant assets, reputational damage, and regulatory compliance fines
- Lower operational risk, impact on health, safety and the environment
- Maximum value of ownership and potentially lower insurance costs

World class technology you can depend on

The economic impact of a spurious or nuisance trip of a fire and gas system can be significant so when selecting or replacing a fire and gas system, ensure that you consider both safety and availability.

By choosing EcoStruxure Triconex Safety Systems for your fire and gas requirements, you will receive a solution which ensures that no single point of failure will cause a nuisance trip or unwanted shutdown

EcoStruxure Triconex Safety Systems are renowned throughout the world for safety, availability, and security, and can be used for all major safety and critical control applications, as well as fire and gas.

Invest in the right solution

With an EcoStruxure Triconex fire and gas system you will get safety, availability and security as standard. EcoStruxure Triconex Safety Systems' failsafe and fault tolerant technology can reduce your operating expenses and production stops.

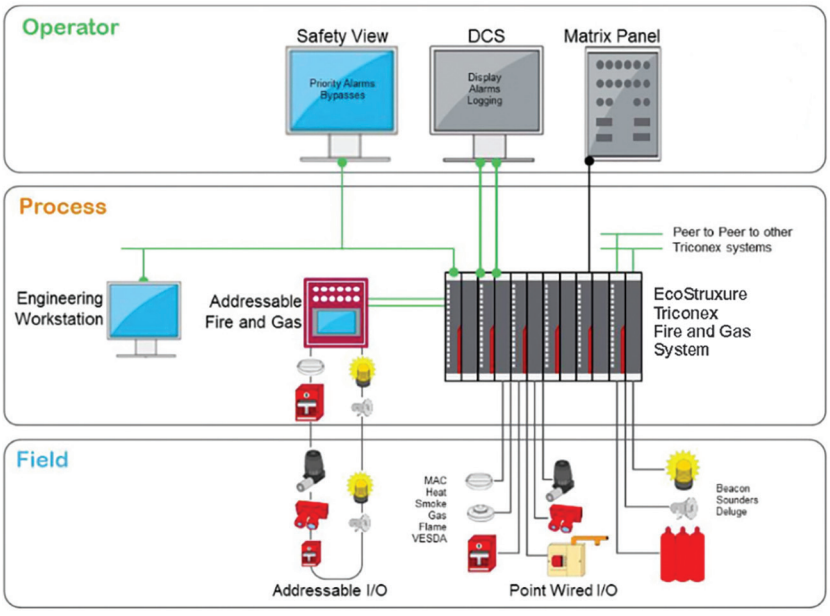
Key capabilities of our fire and gas solutions include:

- TÜV certified for SIL3 applications to international standards IEC61508
- NFPA certified for use in fire and gas applications
- Flexible design and choice of form factor optimize system design, installation and cable costs
- Quick and easy to install, operate and maintain
- High availability architecture for continuous operation even under fault conditions
- On-line module replacement ensures continuous operation and plant availability
- Supervised I/O for normally de-energized, energize to trip fire and gas functions
- Normally energised, de-energize to trip I/O for shutdown functions
- High current outputs for direct powering of beacons and sirens
- Comprehensive on-line diagnostics include line monitoring and system health
- Easily integrated with distributed control systems
- Centralized and distributed I/O configurations
- Suitable for use in harsh environments
- Security certified against cyber threats

Improve bottom line performance

An EcoStruxure Triconex fire and gas system substantially reduces project implementation time and provides a highly cost-effective solution:

- Using the EcoStruxure Triconex - TriStation 1131 application development tool, you can implement your project at a fraction of the time it would take with alternative systems.
- EcoStruxure - Tristation 1131 features a library of fire and gas function blocks simplifying project execution.
- Our fire and gas templates consisting of logic drawings, applications programs, and HMI graphics for various fire and gas functions reduce time and effort.
- EcoStruxure - TriStation Emulator allows for rapid testing and troubleshooting of the application program without the need for the logic solver.
- EcoStruxure - Safety Validator provides the quickest and easiest way to test and validate application logic ensuring that the logic operates as intended. Test results are automatically executed and documented saving time, money and effort.
- This modular design approach successfully eliminates significant time and costs required in the design, configuration, and check-out of the system.



A safety partner for life

Schneider Electric has extensive knowledge of local and international fire and gas standards, supported by a team of global safety experts who provide a single source for all of your fire and gas needs.

Our safety services cover all aspects of the safety lifecycle, from front end loading (FEL) through to the operation and maintenance of the systems throughout the operating life of the asset.

We provide complete turnkey solutions that function as stand-alone or tightly integrated systems as part of an overall plant automation strategy. Our integrated fire and gas solutions typically include the supply of:

- Fire and gas logic solver(s)
- Field sensors including:
  - Smoke detectors
  - Flame detectors
  - Heat detectors
  - Gas detectors
  - Manual alarm call points
- Beacons and sounders
- Hardware and software based matrix panels
- Dedicated fire and gas HMI
- Addressable fire and gas panels and sensors
- Hazardous area protection
- Equipment cabinets, wired and tested
- Uninterrupted power supplies
- Camera systems

Providing fire and gas expertise every step of the way

Fire and gas systems can be complex and require in-depth and specialized knowledge. Our team of engineers has the technical expertise, project management skills and proven methodologies to consistently deliver projects on time and in budget.

Fire and gas lifecycle services include:

- Front-end engineering design, including development of fire and gas philosophies, performance target selection and fire and gas safety requirements specification (FG-SRS)
- Fire and gas functional safety assessment (FG-FSA)
- End to end fire and gas design including detector design and layout
- Project management services
- Detailed engineering, system configuration, build, test, and documentation
- Installation, commissioning and startup assistance
- Maintenance and testing support

Lower total cost of ownership

Our commitment doesn't just stop once the system is installed and operational. We are available throughout the operating life of the asset to ensure that your fire and gas systems are always operating at peak performance. Our customer first program provides a range of services including periodic testing, system maintenance, spares and replacements, training, expert support, upgrades and more all designed specifically to optimize your investment and keep you operating safely.

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