



Reliably safeguard your most
valuable resources

Flame and Gas Safety Solutions

Help protect people, assets, and operations with
reliable detection technologies built to reduce risk.



Why Choose Emerson Flame and Gas Safety Solutions?

Improve safety, operate with confidence, and streamline operations.



Improve Safety

Our complete portfolio provides layered solutions so you can detect hazards faster and more reliably, even in the most demanding applications.

Operate with Confidence

We design and test our products to rigorous requirements and maintain key third-party certifications—because you need detection you can count on.

Streamline Operations

Our innovative detection technologies reduce or eliminate routine maintenance such as calibration and function checks.

Reduce Unplanned Downtime

False alarms are expensive. Our detectors are carefully designed so you can confidently detect real hazards without false alarms.

Reduce Installation Costs

We offer a leading portfolio of *WirelessHART®* gas detection solutions, offering you new possibilities to improve safety in hard-to-reach areas without the cost of running wire.



**Reduce installation costs and
unplanned down-time with
Emerson fire and gas safety
solutions**





Flame Detection

Fires are a hazard in any facility where flammable materials or the potential for a combustible gas leak is present. Emerson offers a complete portfolio of Rosemount™ optical flame detectors to help you rapidly detect and respond to fires in your facility.

Why Choose Rosemount Flame Detectors?

Better performance without false alarms

Rosemount Flame Detectors with QuadSense™ technology utilize four infrared sensors and two independent sensing channels to provide unsurpassed detection reliability, false alarm immunity, and coverage area.

Streamline maintenance

All Rosemount flame detectors feature built-in-test (BIT) technology that continuously validates electronic and optical integrity to help you streamline your operations by eliminating the need for manual function checks with a flame simulator.

Solutions for any application

Whatever your flame detection challenge, we have the solution. Our portfolio includes detectors based QuadSense IR3 and UV/IR technology with global hazardous area certifications, and performance certifications for more than 26 fire types.

Rosemount 975 Flame Detectors



Superior flame detection in any application

- QuadSense™ IR3 or UV/IR technology
- 90 m detection range and widest field of view
- Ultrafast detection
- Widest operating temperature range (-60 to +85 °C)
- Heated optics for reliable performance even in the most challenging applications
- SIL3 certified
- Aluminum or stainless-steel enclosure

Rosemount 965 Flame Detectors



Trusted flame detection for hazardous-area and general-purpose applications

- QuadSense™ IR3 Technology
- 45 m detection range
- Fast detection
- Wide operating temperature range (-40 to +70 °C)
- Compact design with low power consumption
- SIL2 certified
- Aluminum or polymer enclosure





Gas Detection

Combustible and toxic gas leaks create hazardous situations that can lead to dangerous explosions or impact the health of on-site personnel. Emerson's innovative combustible and toxic gas detection solutions are designed to help you improve the safety of your facility while simultaneously streamlining your installation and maintenance operations.

Why Choose Rosemount Gas Detectors?

No More Calibration

We offer advanced gas detectors based on optical and MEMS sensing technology that are factory calibrated for life, allowing you to confidently protect your people and assets without the need for on-site calibration.

No More Wiring

As the industry leader in wireless gas detection, We can help you add combustible and toxic gas detection in hard-to-reach areas while avoiding the need to run wire.

Layers of Protection

We offer a full suite of gas detection solutions including point gas detection, open path gas detection, and ultrasonic leak detection. The most effective safety systems utilize these technologies together to ensure any gas hazard in your facility is detected quickly and precisely.

Point Gas Detectors



Rosemount point gas detectors provide reliable continuous detection of combustible and toxic gases, even in extreme environments. Our portfolio includes detectors based on infrared, MEMS, catalytic bead, and electrochemical sensor technologies to meet any gas detection challenge.

Rosemount 625IR Fixed Gas Detector



Advanced infrared combustible gas detector

- Factory calibrated for life and SIL2 certified with 5-year proof test interval for lowest cost of ownership
- Ultra-fast response for earliest detection, even for small and fast-moving gas clouds
- Optical gas-free tester eliminates need for gas cylinders for bump testing.
- Heated optics ensure reliable performance in wet or humid environments

Rosemount 925FGD Fixed Gas Detector



Infrared combustible gas detector

- Detects hydrocarbon gas using smart infrared sensor technology.
- Long sensor life and long calibration intervals for lower cost of ownership
- Fast response time for reliable gas cloud detection
- Advanced interface with touch buttons, backlight, and LEDs, for easy configuration, calibration, and maintenance

Rosemount 928 Wireless Gas Monitor



Wireless gas monitor

- Innovative MEMS sensor is factory calibrated for life and detects hydrocarbon and hydrogen gases
- Also available with electrochemical sensors to detect leading toxic gases
- Simple WirelessHART network integration
- Low power consumption for long battery life
- Tool-less hot-swappable battery and sensor replacement

Net Safety™ Millennium II Single Channel Transmitter



Gas detection platform

- Smart sensor modules for detecting hydrocarbon, hydrogen, and toxic gases
- Dual channel option available for lowest upfront cost
- Easy to read OLED display with magnet for configuration, calibration, and maintenance

Open Path Gas Detectors



Rosemount Open Path Gas Detectors provide continuous line-of-site detection for toxic and combustible gases, even in extreme environments where dust, fog, rain, snow or vibration can cause a high reduction of signal. They are factory calibrated for life and feature real time diagnostics with response times under three seconds.

Rosemount 935 Open Path Combustible Gas Detector



- Accurate line-of-sight detection for hydrocarbon gases
- Infrared sensor technology is factory calibrated for life—no need for field calibration
- High immunity to false alarms and low cross-sensitivity reduces unplanned downtime
- Heated optics for use in extreme environments
- Long distance detection up to 200 m and short-range detection down to 1 m

Rosemount 936 Open Path Toxic Gas Detector



- Accurate line-of-site detection for hydrogen sulfide, sulfur dioxide, and ammonia gas
- Ultraviolet sensor technology is factory calibrated for life – no need for field calibration
- High immunity to false alarms and low cross-sensitivity reduces unplanned downtime
- Heated optics for use in extreme environments
- Long range detection up to 60 m

Gas Leak Detection



Rapid detection of leaks in high pressure processes, such as pipelines or gas compressor stations, is critical for safe operation. The Rosemount Incus Ultrasonic Gas Leak Detector detects leaks at the speed of sound with wide-area coverage. Incus responds to ultrasonic noise from pressurized gas leaks, not the gas itself, enabling detection before hazardous concentrations form. It requires no gas cloud contact and is unaffected by wind, rain, or other environmental conditions.

Rosemount Incus Ultrasonic Gas Leak Detector



- Detection is instantaneous for all types of gas leaks (toxic or combustible)
- Piezo ultrasonic sensor technology is factory calibrated for life – no need for field calibration
- Utilizes 4 ultrasonic sensors to provide redundancy and wide area coverage (up to 40 m) with a single unit
- Designed for the harshest applications with stainless steel enclosure, -55 to 85 °C operating temperature range, and IP66/67 ingress protection rating



Fire and Gas Controllers, and Process Safety Systems

Fire and Gas controllers are an essential part of an intelligent safety system, seamlessly integrating signals from flame detectors, gas detectors, and other safety devices to quickly identify threats and trigger alarms, shutdowns, or automated protective actions.

Process safety systems are large, integrated safety solutions that interface with fire and gas controllers and emergency shutdown systems to alert personnel and bring the plant to a predetermined safe state, including shutdown, when hazardous events occur.

Why Choose an Emerson Solution?

Best-in-class redundancy

Emerson Fire & Gas controllers and process safety systems have unparalleled redundancy, setting the standard for reliability in critical applications.

Standards compliant, future ready

Meeting all major applicable IEC, NFPA, and EN standards, and certified for use in safety applications up to and including SIL2 or SIL3, an Emerson Fire & Gas controller or process safety system is not just a solution for today but a future-ready investment.

Easy integration and full scalability

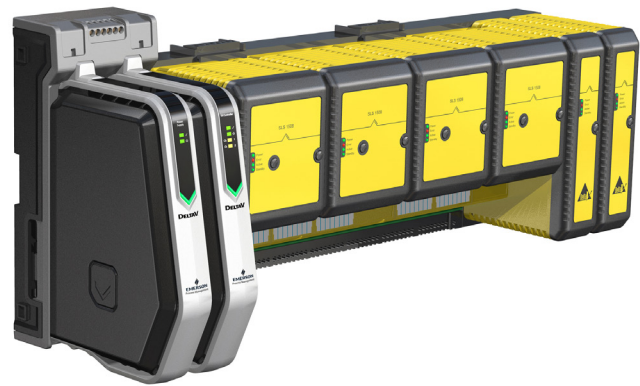
Our controllers and process safety systems provide the flexibility needed to accommodate a wide range of applications. Scalable architecture ensures adaptability to evolving project requirements.

PACSystems™ Safety Controller



- Fire & Gas controller with up to 2000 I/O to accommodate a wide range of applications
- Unparalleled redundancy, setting the standard for reliability in critical applications
- Certified to SIL2, IEC 61508, NFPA 72, 85, 86, and 87, and EN 54-2 standards
- Scalable architecture ensures adaptability to evolving project requirements

DeltaV™ SIS Process Safety System



- Integrated process safety system that can be used in multiple safety applications including fire and gas detection or mitigation system
- Certified to SIL3, IEC 61511, EN 54-2, NFPA 72, EN 50156-1 and EN 298
- Scalable architecture ensures adaptability to evolving project requirements



Industrial Flame and Gas Safety Without Compromise



In extreme conditions, Emerson Flame and Gas solutions protect people and facilities while delivering the confidence operators need to act decisively—without unnecessary disruption. Learn more www.Emerson.com/RosemountFlameandGas