



# Sentry IT Fire & Gas Detection

Connect and protect high value assets and facilities





# Continuous Safety Monitoring

## Fire and Gas Solutions

Facilities ranging from small CNG filling stations to fleet maintenance buildings, wastewater lift stations to wastewater plants, compressors, pipelines, refineries, and even data rooms and cell tower huts present a common set of risks of hazard gas. Combustible gases such as natural gas (Methane) or Hydrogen represent a risk for facilities due to fire or explosion. Toxic gases including Carbon Monoxide, Hydrogen Sulfide, Chlorine and many others represent a risk to personnel, while inert gases such as Carbon Dioxide and Nitrogen can cause Oxygen displacement leading to asphyxiation. Facility managers must identify hazardous gas risks, mitigate the possible causes and design continuous monitoring systems to warn of dangerous conditions. Many facilities also need to protect themselves from flame hazards.

Protection from gas hazards is not a one-size-fits-all proposition. Systems must be designed to provide the appropriate level of protection and response commensurate with the risk level and the resources available to install and manage the system. Sierra Monitor's Sentry IT fire and gas detection solution includes standalone sensor modules that can be integrated into the user's safety and control system, controller based systems with extremely flexible logic for customized response, and enterprise wide systems that incorporate Internet of Things (IoT) functions such as network connectivity, web-server graphics capabilities, and cloud data analytics.

## Sentry IT Smart Gas Detectors

- Smart stand alone or system based operation
- Multiple communication choices
- SenseSafe™ feature – continuously analyzes detector parameters
- Intuitive non-intrusive menu-based operation
- Proprietary sensor DSP halves frequency of recalibration compared to other vendors
- Broad range of gases and technologies



## Notable NRTL Approvals



**UL 2075**

*Combustible Gas Detector Performance*



**FM Approval**

*Performance and hazardous locations*



**ATEX Certified**



**IECEx Certified**



**ISO 9001:2008**

*Registered Quality System*



**SIL-2 Certified**



**CQST**

*Certificate for China*



**CCCF**

*Certificate for China*



**CE Marked**

*Certificate of Approval*



**CCOE/PESO**

*Certificate for India*



**Restriction of Hazardous Substances**



**ABS**

*Certificate of Compliance*

## Sentry IT Flame Detectors

- Multi-spectrum solutions for false alarm avoidance
- Built-in self-test to assure proper function
- Methane fire detection up to 100 meters away
- Universal detection of Hydrocarbon, metal, polymer, explosive, and Hydrogen flames

- RS-485 Modbus RTU
- Easy to read scrolling LED display
- Optional remote sensor
- 3-Wire or 4-Wire isolated 4-20 mA with HART option
- Optional 8 amp alarm relays
- Sentry PSG interface to existing and new Sentry IT systems





# Selecting the Right Partner

## Your Return on Investment

Sierra Monitor is a top-tier supplier with over 35 years of experience in a highly regulated industry. Sierra Monitor's products carry numerous third party approvals from notable Nationally Recognized Testing Labs (NRTL) that satisfy authority having jurisdiction. This provides our customer's with independent validation that our products meet or exceed current international codes and standards. Sierra Monitor has deep technical experience and the resources to advise, develop and integrate the correct safety solution. Buyers should consider these important points when selecting a top-tier supplier to maximize return on investment (ROI).

- ✓ Intelligent technology to maximize system reliability.
- ✓ NRTL approvals validating performance and hazardous location service.
- ✓ Low cost of ownership with up to one year between calibrations.
- ✓ Minimal installation and commissioning time with intelligent digital systems.
- ✓ Embedded web interface with cloud connectivity for remote monitoring and analytics.

## Sentry IT Controller

- Scalable – expand with additional I/O blocks
- Multiple power options
- Auto Discovery of Sentry IT smart detectors
- GlobalCal™, single person auto-adjusting calibration
- SenseSafe™ integration of Sentry IT Smart Detectors
- Built-in Webserver for remote access to controller
- Plant wide system and cloud integration
- Multiple power options and battery back-up systems
- Calibration intervals up to one year for low cost of ownership
- Embedded gateway providing universal connectivity
- SIL-2 Certified controller
- Easy upgrade from Sentry Classic



## Featured Applications



Alternative Fueled Vehicle Facilities



Wastewater Treatment Plants



Remote Landfill Monitoring



Chemical Plant Gas Detection



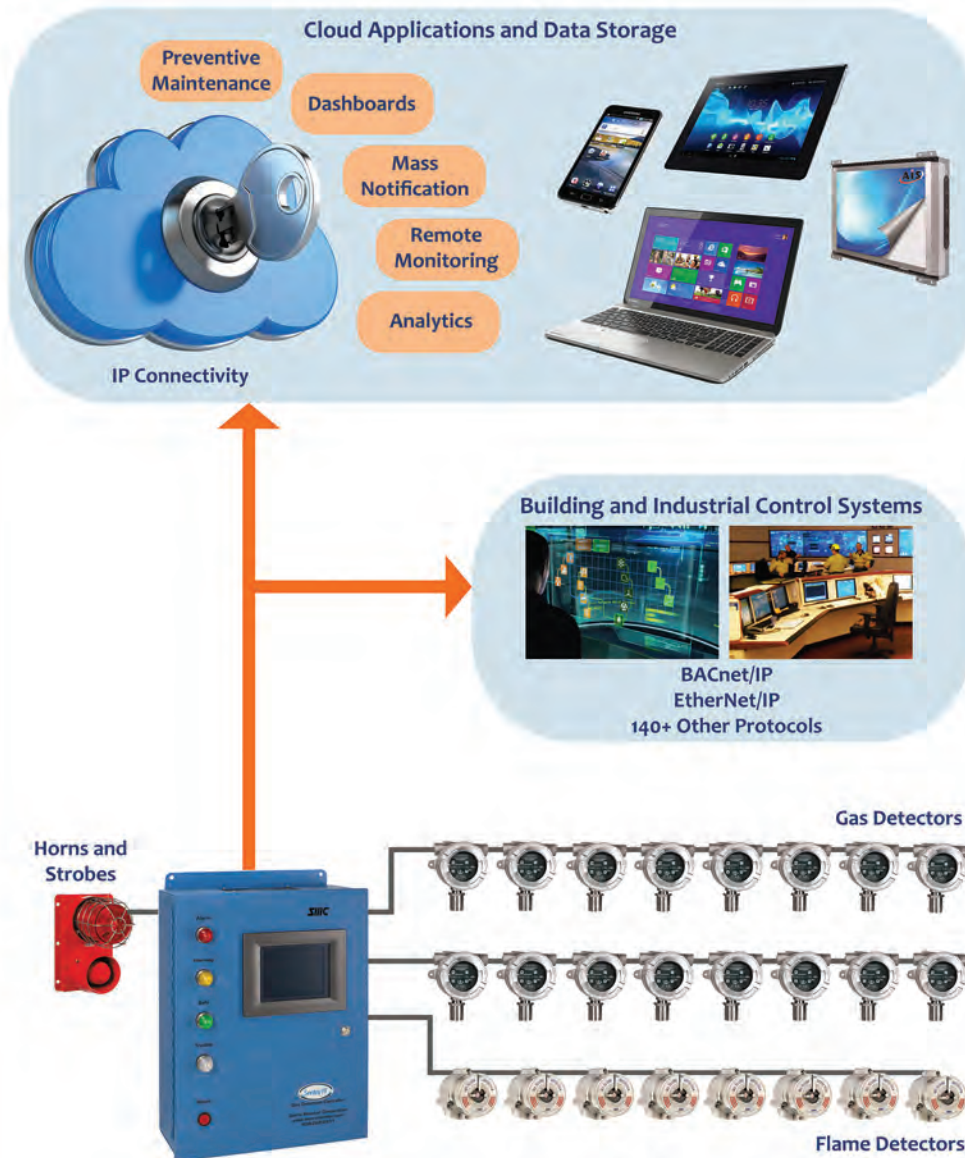
Booster Station Fire & Gas Systems



Methane Gas Mitigation



# Integration: Beyond the Controller



## Industrial Internet of Things

Today's M2M/IIoT environment demands that data is securely accessible. Sentry IT, with its built-in communications engine, offers integration beyond the controller enabling new applications for improved safety and reliability.

## Sentry IT Protects Against

### Combustible Gases

*Explosion or fire hazard  
Must maintain concentration below lower explosive limit (LEL)*

### Toxic Gases

*Hazardous to human health & safety  
Employee exposure must be limited*

### Oxygen Displacing Gases

*Indirect human health hazard  
Deficiency of breathing Oxygen*

### Flame and Fire

*Smoke and thermal radiation  
Obscured visibility, inhalation, eye irritation, burns on exposed skin*

## Contact Us



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