



SMC

# Fixed Gas Detection Product Guide

Connect and Protect High-Value Assets and Facilities



SAFEGUARDING  
**PEOPLE, PLACES & THE PLANET**

## Gas Detectors

MSA's SMC Sentry IT gas detection solution includes standalone sensor modules that can be integrated into the user's safety and control system or our SMC controller based systems.



### Combustible Gas Detectors

- Model 5100-02-IT performance approved with a 180-day calibration cycle
- Outputs including Modbus, 4-20 mA, relays, and HART interface
- Integral scrolling LED display, for visibility in low light and cold areas
- Aluminum or stainless steel configuration



### IR Combustible Gas Detector

- Model 5100-28-IT performance approved with a 365-day calibration cycle
- Outputs including Modbus, 4-20 mA, relays, and HART interface
- Integral scrolling LED display, for visibility in low light and cold areas
- Aluminum or stainless steel configuration

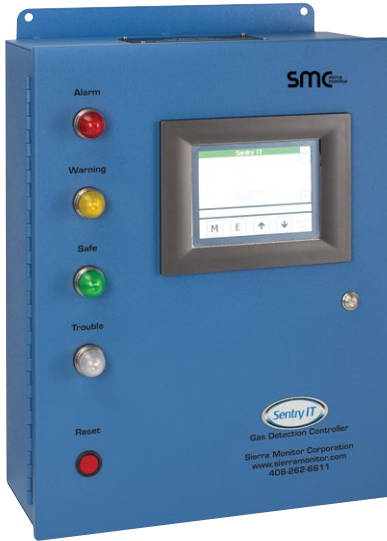


### Toxic Gas Detectors

- Ammonia, H<sub>2</sub>S, CO, CO<sub>2</sub>, oxygen deficiency, and others
- Model 5100-05-IT performance approved up to a 180-day calibration cycle
- Outputs including Modbus, 4-20 mA, relays, and HART interface
- Integral scrolling LED display, for visibility in low light and cold areas
- Aluminum or stainless steel configuration



# Controllers

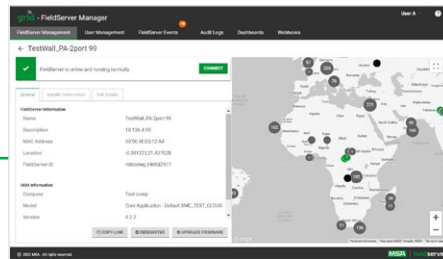
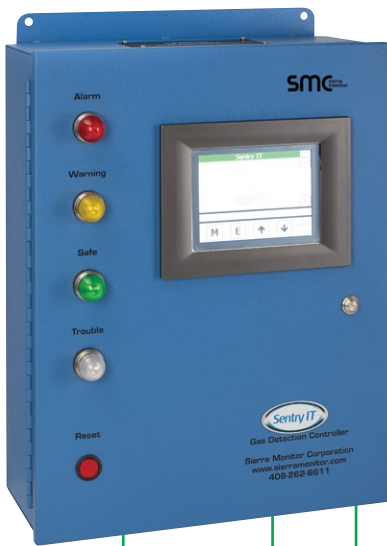


## Sentry IT Controller

- Multiple input configurations allow up to 32 points per controller to interface with all types of flame and gas detectors
- Third-party NRTL approvals UL 2017 and UL 62368
- Outputs to other control devices via re-transmit of 4-20 mA signal, 5 Amp, or 8 Amp relays
- Simple menu-driven configuration and operation via a large, touch sensitive, easy-to-read color touch-panel computer
- Super bright LEDs indicating Safe, Alarm, Warning, or Trouble conditions and external alarm reset switch

# Complete System Integration

From Detection to Notification



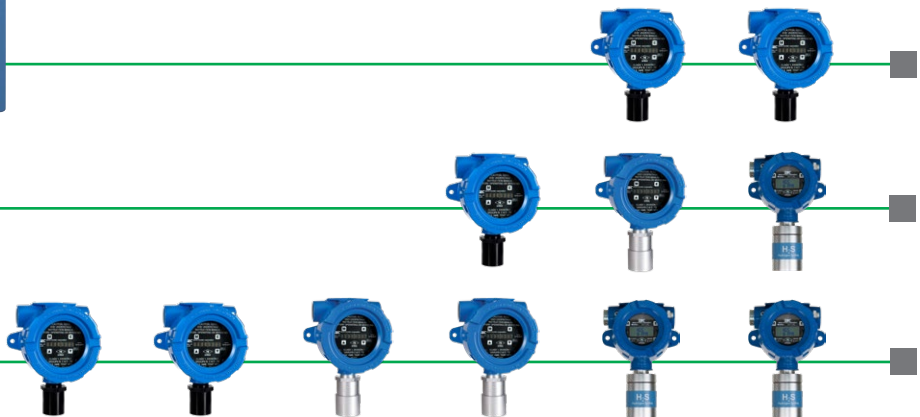
## Grid FieldServer Manager

### Local web applications

- System status
- Module details
- Historian
- Alarm notification

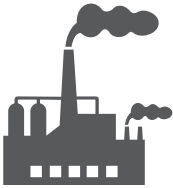


Horns & Strobes



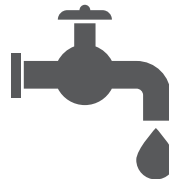
Gas Detectors

## Notable Applications



### Oil, Gas, & Chemical

The SMC Sentry IT Controller products provide a reliable and cost effective gas detection solution throughout the oil, gas, and chemical production process. The Sentry IT Controller meets the requirements of upstream drilling, midstream transmission and compression, and downstream refining and manufacturing. The extended calibration interval reduces the total cost of ownership of the system.



### Water & Wastewater Treatment Plants

The Sentry IT Controller monitors the flammable and toxic gas detectors throughout the facility. Beginning in the headworks to the final clarification process, the Sentry IT Controller can monitor for hazards and directly interface into plant distributed control systems. Calibration and maintenance are quick and easy using our single user GlobalCal detector calibration process.



### Alternative Fuels & Transportation

The Sentry IT Controller is integral in providing flame and gas detection for maintenance areas, compression, and fueling sites. The Sentry IT Controller allows easy access for system management and calibration. The Sentry IT Controller initiates the mitigation and controls the alert devices and provides the interface to mass notification systems.



### Landfill & Brownfield Monitoring

The area surrounding these sites can be contaminated with many different hazards. The Sentry IT Controller can monitor multiple types of flame detectors to meet the various hazards found at these sites. Many times these facilities require supervisory systems to monitor them remotely to assist with site management. The Sentry IT Controller fulfills this requirement with an integral web application built into the system.

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice. MSA is a registered trademark of MSA Technology, LLC in the US, Europe, and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.

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