

Public Venue Security

Using the MSA SAFESITE® Multi-Threat Gas Detection System and Portable Gas Detection



MSA
The Safety Company



The MSA **SAFESITE Multi-Threat Detection System** allows operators to know where the hazard is, what it is composed of and where it is headed. SAFESITE answers these questions by using a broad range of sensors integrated with GPS and all communicating on a wireless network. SAFESITE is compatible with plume modeling programs that integrate the weather and threat assessment based on the toxicity of the chemical. From an incident management point of view, you will see the complete picture.

Key benefits of the SAFESITE System:

- Scalable to the chemical threat using interchangeable sensors
- Designed for interoperable communication with other communication programs

The MSA SAFESITE System has been used to successfully monitor several major events, including the Olympics, the Kentucky Derby, the Super Bowl and the 2009 Presidential Inauguration.

The SAFESITE System consists of several components.

The **SAFEMTX™ Multi-Threat Detector** utilizes multi-sensing technologies to detect up to six potential threats, helping first responders reduce the risk of exposure and facilitate consequence management.

Sensors for the SAFESITE System include:

- Gamma radiation
- GPS
- Photoionization detectors (PIDs) for organic vapors such as gasoline, pepper spray and CWAs
- LEL sensors for combustible gases such as hydrogen, propane and methane
- Electrochemical oxygen sensors
- Toxic gas sensors including chlorine, hydrogen chloride, hydrogen cyanide and ammonia

It also offers GPS location technology, pumped flow, horn, beacon, interchangeable smart sensors for maximum flexibility, a display lock-out panel which hides the display during monitoring, and internal diagnostics to identify signal strength during system deployment. Power options allow for lithium ion or alkaline batteries, as well as AC Power and a 12 VDC vehicle connection.

MSA Detect to Warn Solutions

The threat of chemical, biological or radiological attacks continues to be a significant public safety issue. As a result, MSA has developed a broad range of products to allow the First Responder community to be prepared if an attack occurs. While we can not stop an attack from occurring we can manage that attack with detection information that allows decision making to be based on facts. MSA offers solutions designed to protect large public events from threats ranging from Toxic Industrial Chemicals to comparatively small biological “white powder” threats, using proven technologies that are easy to deploy and operate.

Venue Examples

- Indoor and outdoor sports arenas and stadiums (football, hockey, baseball, indoor motorcross and “monster truck” shows (CO concerns), horse races, the Olympics)
- VIP events (political conventions)
- Concert halls
- Municipal parades and festivals

The **SAFECOM™ Command Center** receives mission-critical information from the SAFEMTX Detectors and permits this crucial and wide-ranging data to be converted quickly into practical information for rapid decision-making through an uncomplicated graphical user interface. The SAFECOM Command Center can manage up to four systems with 16 SAFEMTX Detectors per system, integrating SAFEMTX data, including:

- Gas readings
- Relative CWA threat level
- Radiation dose rate
- Alarm status
- GPS location
- Battery run time
- RF signal strength
- Fault conditions
- SAFEMTX min, max, and average values

Wireless Technology

The SAFESITE System provides up to two miles of wireless communication between any SAFEMTX Detector, SAFECONNECT™ Belt-Bridge and SAFECOM Command Center. SAFECONFIG™ Software works with the SAFECOM Command Center or SAFECONNECT Belt-Bridge, enabling configuration of any SAFEMTX Detector as a repeater. This added capability maximizes deployment range and ensures maximum signal strength and reliable deployment without the need to move units.

Portable Detectors

Portable detectors can be used by those walking around the scene to collect additional information. The SAFECONNECT Belt-Bridge enables data from the HAZMATCAD or Sirius® Multigas Detectors to be an integral part of the SAFESITE System.

The **Sirius Multigas Detector** provides simultaneous monitoring of volatile organic compounds with low vapor pressures and combustible, toxic and oxygen-deficient atmospheres.





HAZMATCAD™ Plus Hazardous Material Chemical Agent Detector with Selected TICs is the ideal solution for detecting a broad range of chemical threats including nerve and blister agents and select TICs including phosgene, hydrogen cyanide, halogen and hydride gas. This unit combines two proven detection technologies: a Surface Acoustic Wave (SAW) sensor array and an electrochemical cell array to meet a wide range of chemical threats.



The new **BIOSENSOR™ 2200R Biological Agent Detector** is a handheld, portable, on-site instrument for rapid detection, analysis, and identification of biological agents such as anthrax, ricin, anthrax/ricin duplex, SEB (staphylococcal enterotoxin B), botulism, Plague, Smallpox, Tularemia, Cholera, and West Nile virus. It is easy to use and features excellent sensitivity, 1 in 1,000,000 false positives, and a 5-minute time-to-answer.



The BIOSENSOR 2200R employs dynamic surface generation, a patent pending type of immunoassay detection technology. This technology offers significant advantages over other field-based assay methods.

Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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