



Fixed Gas & Flame Detection

North America Product Range Overview



Over 100 years of experience and capability in comprehensive safety solutions have made MSA Safety a modern and forward-looking company for the protection of people, facilities, and the environment. MSA Safety is one of the few suppliers of fixed gas and flame detection (FGFD) measurement technology that develops and manufactures a complete range of products and integrates them into safety solutions.

Our expertise in gas and flame detection is second to none and proves that the right mix of durable products and innovative technology increases safety while driving operational efficiency.

We have the widest range of sensing technologies for gas and flame detection. We create solutions that not only provide worker safety and protect facilities, but also decrease overall cost of ownership.

SAFEGUARDING
PEOPLE, PLACES & THE PLANET

Explosion-Proof Detectors

ULTIMA® X5000 Gas Monitor

The ULTIMA X5000 Gas Monitor offers advanced technologies detecting oxygen, toxic, and combustible gases.

Key features:

- TruCal® simulated calibration technology extends manual calibration intervals up to 24 months for XCell® H₂S and CO sensors
- High visibility and intuitive display with full-word text available in 9 languages
- Tool-free operation with touch-enabled display
- Dual sensing and universal board design lowers project installation costs
- Bluetooth® application provides easy configuration for faster start-ups



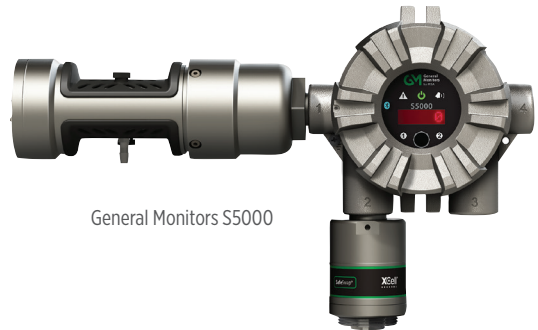
ULTIMA X5000

General Monitors® S5000 Gas Monitor

The S5000 Gas Monitor is the ultimate gas detector for extreme environments requiring detection of oxygen, toxic, and combustible gases.

Key features:

- Performs over a wide temperature range (-67°F / -55°C) to (+167°F / +75°C)
- TruCal simulated calibration technology extends manual calibration intervals up to 24 months for XCell H₂S and CO sensors
- Multiple communication options including HART, Modbus, Dual 4-20 mA (source or sink)
- Backwards compatible with select S4000TH and S4000CH sensors
- Bluetooth provides easy configuration with X/S Connect app



General Monitors S5000

Flame Detectors

General Monitors FL500 UV/IR Flame Detector

- Ultraviolet/infrared flame detector detects hydrocarbon fires fast
- Six fuel sources FM performance approved
- Wide field of view for greater fire detection coverage
- HART and Modbus communication options
- Hydrogen-specific flame detector also available



FL500

General Monitors FL4000H MSIR Flame Detector

- Advanced multi-spectral infrared optical flame detector for hydrocarbon fires
- Neural Network Technology (NNT) for reliable discrimination between actual flames and false alarm sources
- Detection range up to 230 ft (70 m)
- HART and Modbus communication options



FL4000H

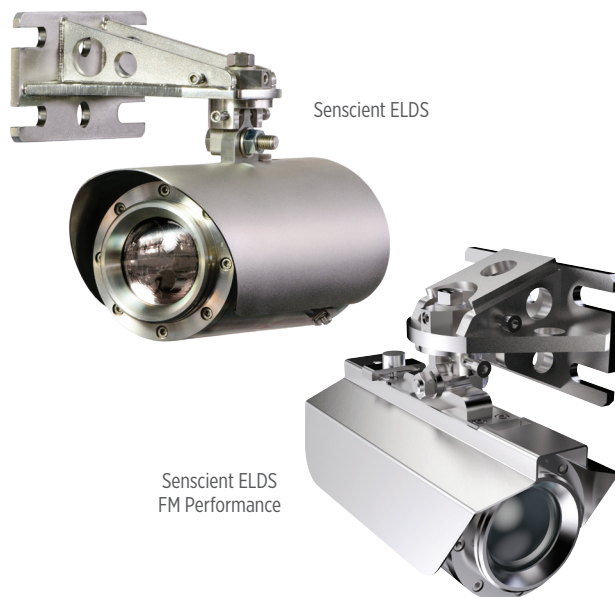
Open Path and Ultrasonic

Senscient ELDS™ Open Path Gas Detector

A laser-based open path gas detector for the detection of toxic or flammable gases. Using a separate transmitter and receiver arrangement, it is certified for use in hazardous areas. Available for open area detection or ventilation air intakes.

Key features:

- Target gas specific—no false alarms
- Gases detected: ammonia, carbon dioxide, hydrogen chloride, hydrogen sulfide, ethylene, methane, sour gas (H₂S/Methane)
- Fast speed of response (<5 seconds)—fast initiation of safety actions
- SimuGas daily automatic self test—no routine manual testing
- Factory lifetime calibration—no routine recalibration required
- No consumable sensing elements—reduced operational cost
- FM performance-approved methane variant



General Monitors IR5500 / OPIR-5 Open Path Infrared Gas Detector

The IR5500 / OPIR-5 Open Path Infrared Gas Detector provides continuous monitoring of flammable gases.

Key features:

- Sensitive to small (ppm.m) and large (LEL.m) gas leaks
- Ideal for harsh environments (-67°F / -55°C)
- Continuous self-check for fail-to-safe operation
- Multiple communication outputs (HART, Modbus, AMS support)



General Monitors Observer® i Ultrasonic Gas Leak Detector

The Observer-i responds rapidly (<1 second (speed of sound)) to the airborne ultrasound generated from pressurized gas releases in open ventilated areas.

Key features:

- Artificial Neural Network (ANN) distinguishes real gas leak noise and suppresses false alarm sources
- Patented Senssonic™ self-test ensures full fail-safe operation
- Trouble-free maintenance and one-person check and calibration
- AISI 316L stainless steel housing enclosure
- Explosion proof design, Ex-d



Controllers

SUPREMATouch Controller

SUPREMATouch is a gas and fire warning system for large area measuring.

Key features:

- Processes up to 256 inputs and 512 outputs
- Multi-lingual touchscreen enabling intuitive operation
- New software enabling remote, one-man, and group calibration
- SIL 3 compatible due to the option of redundant input cards



SUPREMATouch

SENTRY io® Controller

The SENTRY io is an easily-configurable, wall-mount multi-channel controller suitable for a variety of industrial applications.

Key features:

- Monitors up to 16 inputs and 56 outputs with an option for analog outputs
- Modern multi-lingual touchscreen HMI supports intuitive operation
- SmartStart walks users through setup process saving valuable time
- EZ-ID synchronizes and pre-populates details of HART-enabled MSA detectors
- Digital communications supported: Modbus TCP/IP, Modbus RTU (optional), EtherNet/IP/DLR



SENTRY io

9010/9020 Controller

The 9010/9020 Gas Controller provides maximum flexibility, simple operation, and high reliability.

Key features:

- Monitors up to 20 channels independently
- Options in 19-in. rack or wall-mount box (one or two channels)
- Works in combination with a wide range of MSA gas sensors
- Large LCD and LED inform about gas concentration, alarm status, and more
- RS 485 Modbus RTU, Ethernet for Modbus TCP

9010/9020



ModCon™ 75 Touch Controller

Designed for use with the Ultima X Gas Monitor with X3 technology, the pre-programmed ModCon 75 Touch Controller features a 7" touchscreen monitor for ease of use. The controller is self-configuring for monitoring up to 25 monitors for a total of 75 sensors.

- All pertinent data displays on main data screen
- Modbus RTU input and Modbus-over-Ethernet interface capability
- Battery backup holds system information in case of power loss

ModCon 75 Touch

