



# HazardWatch<sup>®</sup> FX-12 Fire & Gas System

FM-Approved Fire & Gas Detection System



## Where innovation meets power and accessibility.

All the power, flexibility, and functionality of a complete safety system controller without the complexity and cost—delivered by the power and reliability of the Allen-Bradley® system and industry-leading fire and gas detection technology from MSA and General Monitors.

### System Overview

The HazardWatch FX-12 System is designed with Rockwell Automation's industry proven Allen-Bradley ControlLogix™ programmable logic controller (PLC) technology and MSA's advanced gas and flame detection field devices. The system's controller hardware configuration and software have been tested by Factory Mutual to verify NFPA 72 (2013) compliance. The HazardWatch FX-12 System accommodates up to 12 points of input/output devices and allows users to configure system logic. It is highly scalable, making it suitable for small systems to large plant-wide applications.



## Total Control at Your Fingertips

Through local touch screen control and visibility anywhere with optional cloud-based remote monitoring, the General Monitors HazardWatch FX-12 Integrated Fire and Gas Detection System represents the next generation of highly intelligent monitoring solutions designed to help customers reduce hazard vulnerability and meet the world's most demanding safety standards.

### An innovative, modular, highly scalable system:

- FM-approved for NFPA 72 compliance
- FM-compliant fire alarm and gas controller
- FM-approved releasing control panel
- FM-approved fault-tolerant digital communications
- Color touch screen operator interface
- Data and event logging
- Supports third party device integration
- Simple, reliable, and cost effective field wiring topology
- Allen-Bradley DLR-enabled communication protocols allow secure integration with other Rockwell products



*Enclosure available in either red or gray.*



# HazardWatch FX-12 Fire & Gas System



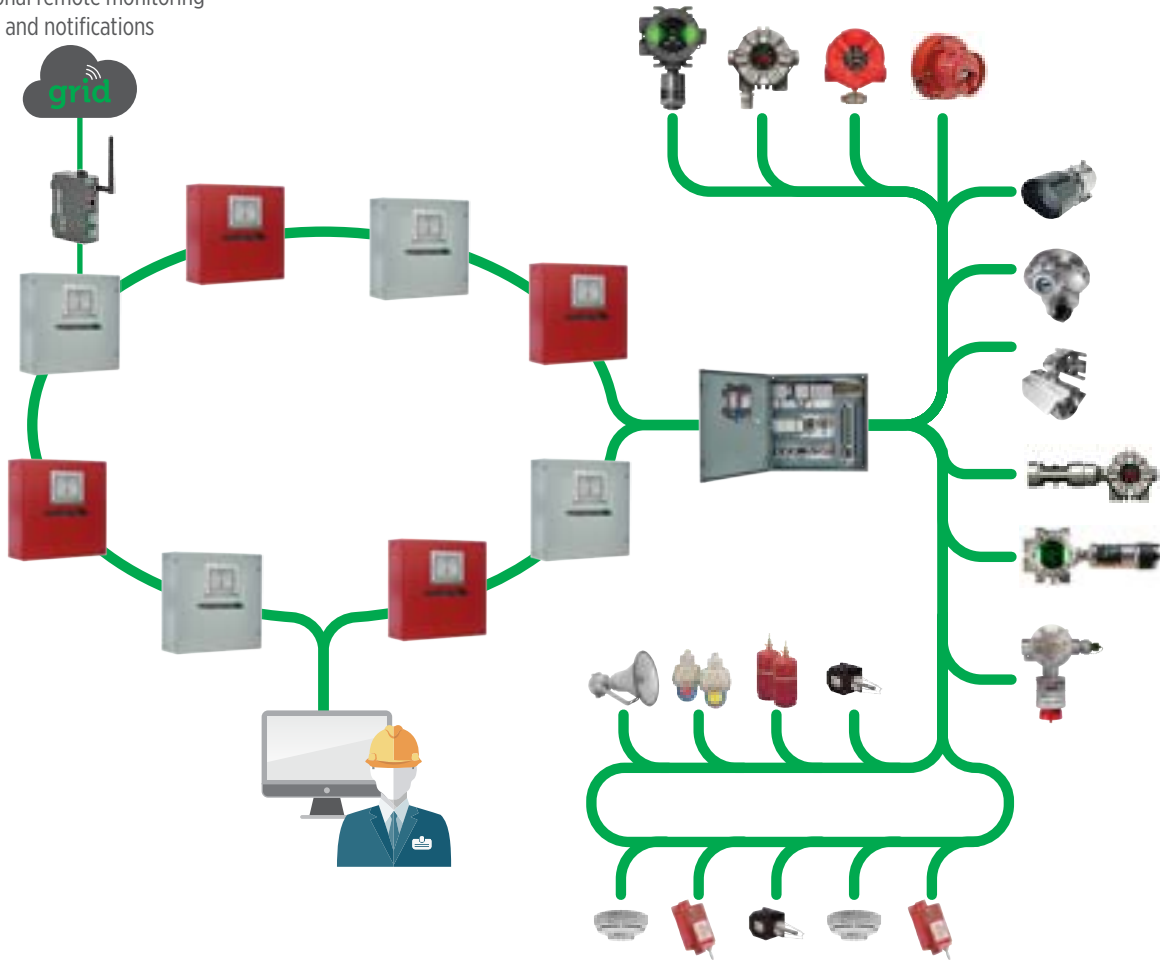
**NFPA 72-compliant user-friendly touchscreen interface**

**FM-approved**

**Allen-Bradley ControlLogix™ PLC platform**

# A Powerful, Versatile Solution with Flexibility

Optional remote monitoring and notifications



**From distributed control to network communications, to control software, to operator interfaces, to field devices, HazardWatch FX-12 System is the complete answer in a wide range of applications:**



Offshore Platforms



Refineries & Pipelines



Gas Compressor Stations



Storage Facilities



LNG Facilities



CNG Fueling Terminals



Tanker Loading/Unloading



Chemical Plants



Electric Power Plants



Aircraft Maintenance Areas



Aerospace Launch Facilities



Automotive Plants



Pharma Manufacturing



Munition Plants

## Advanced Flame & Gas Detectors



### FL4000H MSIR Flame Detector

The FL4000H Multi-Spectral Infrared (MSIR) Flame Detector provides superior false alarm immunity with the widest field of view utilizing neural network technology (NNT). Options include relays, Modbus, and HART.



### FL500 UV/IR Flame Detector

The FL500 UV/IR Optical Flame Detector offers high performance in a compact design with fast response times, increased false alarm immunity and wide field of view for reliable protection.



### S5000 Gas Monitor

The S5000 Gas Monitor is a fixed gas transmitter which is ideal for extreme environments needing to detect oxygen, toxic, and combustible gases. It operates over a wide temperature range using a variety of gas sensing technologies and can accommodate two sensors per transmitter.



### ULTIMA<sup>®</sup> X5000 Gas Monitor

The ULTIMA X5000 Gas Monitor is the ultimate gas monitor with its easy to read display and unique touch-screen interface. Dual sensor capability allows sensors to be remotely mounted, mixed and matched for application flexibility.



### IR5500 Open Path Gas Detector

The IR5000 Open Path Gas Detector's advanced single beam sensing technology ensures high accuracy to eliminate drift and false alarms. It is ideally suited for monitoring tank farms, gas spheres, fence lines, and rows of valves or pumps.



### IR400 Hydrocarbon Gas Detector

The IR400 Infrared Point Detector features a fail-to-safe operation design to detect combustible gases within the lower explosive limit (LEL). No routine calibration is required, which reduces maintenance requirements. HART option available.



### Senscient ELDS Methane-Specific Open Path Detector

The Senscient ELDS Methane Open Path Gas Detector is FM performance approved for use in hazardous areas. It protects plants from the risk of explosion by detecting methane leaks faster and over a larger area.



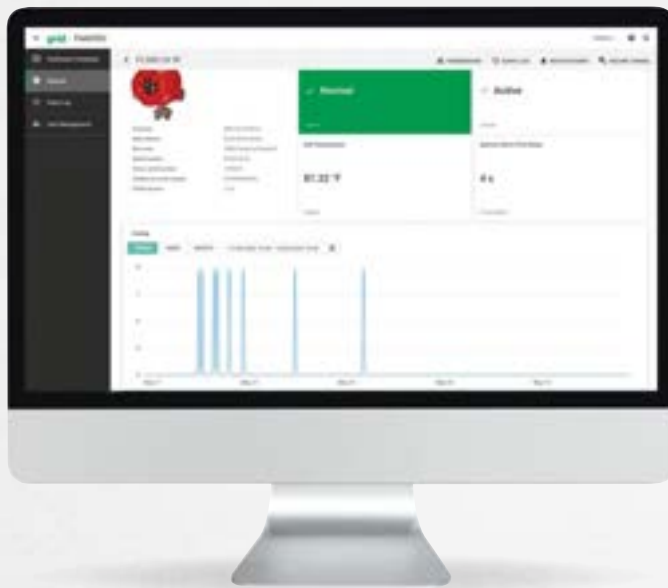
### Observer<sup>®</sup> i Ultrasonic Gas Leak Detector

The Observer i Ultrasonic Gas Leak Detector offers fast detection of high pressure gas leaks without requiring the gas to come into contact with the detector. It is ideally suited for outdoor installations.

## Remote Monitoring & Notification

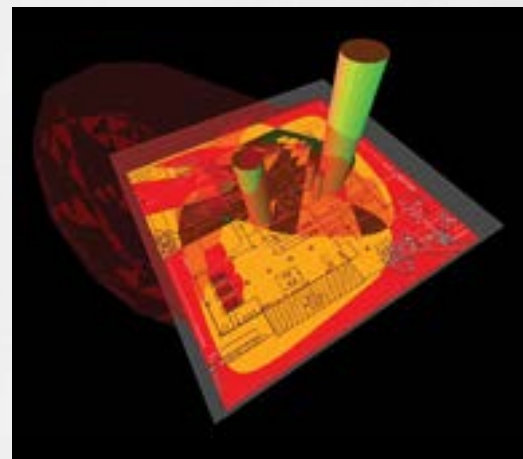
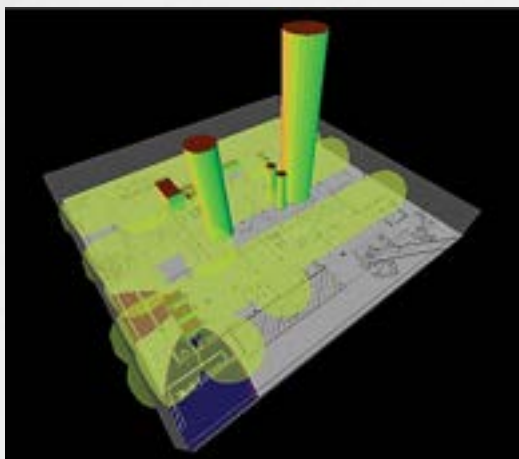
On-site or in the cloud, MSA's Infrastructure Connectivity Solutions enable the sharing of critical operational data 24/7 through our safe and secure FieldServer gateways and our cloud-based services—MSA Grid FieldVEU and MSA FieldServer Manager.

MSA's FieldServer solutions help support fire alarm panels and the HazardWatch FX-12 Fire and Gas System by notifying the SCADA system of events in the field via BACnet, EtherNet/IP, Modbus, SNMP, and a host of other protocols.



## Fire & Gas Mapping

MSA fire and gas mapping is a solution that assists in the evaluation of flame and gas risks. Determining the optimal quantity and location of flame and gas detectors is critical to ensure the detection system's effectiveness. Through design iterations, the effects of different detector arrangements on detection coverage are quantified and assessed, stopping when the desired performance target is met.





# MSA—The Safety Company

*Established in 1914, MSA Safety Incorporated is the global leader in the development, manufacture, and supply of safety products that protect people and facility infrastructures. Many MSA products integrate a combination of electronics, mechanical systems, and advanced materials to protect users against hazardous or life-threatening situations. The company's comprehensive product line is used by workers around the world in a broad range of markets, including the oil, gas, and petrochemical industry, fire service, construction, mining, and the military. MSA's core products include self-contained breathing apparatus, fixed gas and flame detection systems, portable gas detection instruments, industrial head protection products, firefighter helmets and protective apparel, and fall protection devices. With 2021 revenues of \$1.4 billion, MSA employs approximately 5,200 people worldwide. The company is headquartered north of Pittsburgh in Cranberry Township, PA, and has manufacturing operations in the United States, Europe, Asia, and Latin America. With more than 40 international locations, MSA realizes approximately half of its revenue from outside North America. For more information visit MSA's web site at [www.MSAafety.com](http://www.MSAafety.com).*

## **Our Mission**

MSA's mission is to see to it that men and women may work in safety and that they, their families, and their communities may live in health throughout the world.

## **MSA: SAFEGUARDING PEOPLE, PLACES & THE PLANET**

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.msafety.com/Trademarks>.

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit [MSAafety.com/offices](http://MSAafety.com/offices).