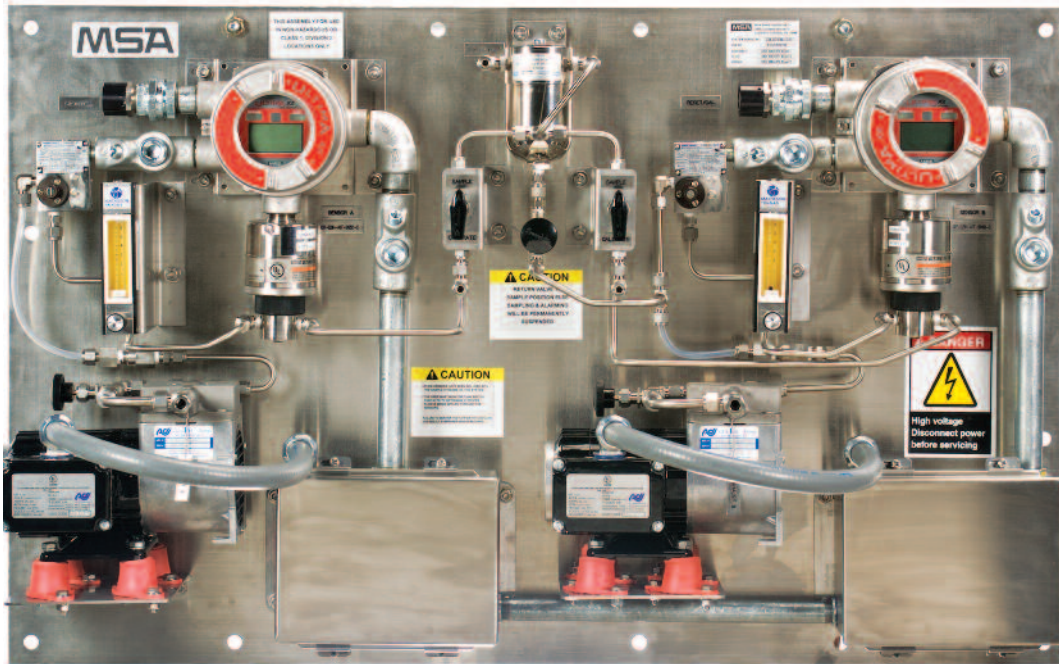


# Ultima<sup>®</sup> X Gas Monitoring System



## Hydrogen Detection in Chemical Agent Destruction Processing Applications



### Application

The process of destroying chemical agents used in rockets and other projectiles requires a facility in which to store and safely destroy the agents. Decontamination of the projectiles and neutralization of the chemical agents require multiple steps and include the need to treat and monitor secondary wastes. Monitoring exhaust ducts for hydrogen off-gas levels during chemical agent processing is critical to the safety of both facility personnel and those in the nearby community. Due to the severity of harm that may be caused by these agents, a dual sampling system is used. The single sample inlet is split into two redundant sensors. Each side is a duplicate of the other and enables extremely reliable independent monitoring. In the unlikely event of a component problem, the other side would still be operable, preventing unnecessary and expensive down time.

### Solution

MSA Ultima X Gas Monitors are ideally suited for these monitoring applications. They are microprocessor-based to provide continuous monitoring of many hazardous gases using catalytic, electrochemical and infrared gas detection methods.

## Ultima X Monitor Features

- DuraSource™ Technology provides extended infrared sensor life
- HART field communications protocol option for improved asset management
- Patented sensor disconnect-under-power allows sensor change-out without declassifying a hazardous area
- Interchangeable smart sensors: pre-calibrated, installation-ready sensor modules, field-replaceable without tools
- New sensor type quick recognition and reconfiguration of alarm and relay settings
- LCD conveniently alternates between sensor reading and gas type plus scrolling messaging for ongoing diagnostic checks
- Single-board design for ultimate reliability and serviceability
- Installation is both simple and flexible

## Application-Specific Features

- High-volume explosion-proof sampling pumps reduce sample transport time
- Can be used anywhere redundancy is required to provide an extra level of safety for personnel entering areas that may be toxic or combustible

## Applications:

- Government
- Military
- Refineries
- Chemical plants
- Power plants
- Nuclear facilities
- Medical waste incinerators

# Ultima® X Series Gas Monitors

Ultimate Features... **EX**treme Design



**Ultima XE Gas Monitor**  
Explosion-Proof, Stainless Steel  
Gas Detector with Display

**Ultima XA Gas Monitor**  
Water- and Corrosion- Resistant, All-  
Purpose, Polycarbonate Gas Detector  
with Display



**Ultima XIR Gas Monitor**  
Explosion-Proof, Stainless Steel,  
Infrared Gas Detector with Display

**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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