

PERMANENT GAS DETECTION – COMPLETE SAFETY SOLUTIONS



Monitoring of hazardous gases and vapors in plants and large areas is necessary in all branches of industry. Directives and regulations covering the protection of plant and personnel as well as the monitoring of emissions require suitable gas detection equipment. In addition to portable instruments for personnel monitoring, permanently installed detection systems (detectors and controllers) are used for continuous monitoring.

MSA is one of the few suppliers of permanent gas detection technology that develops and manufactures a complete range of sensors, controllers and monitors and integrates them into system solutions. This is the way to develop optimum systems that can meet all customer requirements at an excellent performance-price ratio - an unbeatable case for safety and flexibility.

Whether stand-alone, or integrated into existing control and monitoring systems, MSA offers made-to-measure solutions.

MSA's portfolio on Permanent Gas and Flame Detection Systems includes:

1. Controllers
2. Detectors
3. Sensors
4. Monitors
5. Fire and Gas Detection Systems

Alongside the extensive range of the products mentioned above, MSA also provides a high level of customized service including: project planning and development, installation support and commissioning, maintenance and system modification.

State-of-the-Art Detection Technology : Ultima® XE Gas Monitor



Certified to: ATEX / EN 61779-1 / EN 61779-4 / EN 60079-0 / EN 60079-1 / SIL2

The Ultima XE Gas Monitor offers the latest in mechanical and electrical technologies for the continuous gas monitoring of combustible and toxic gases, as well as oxygen deficiency. HART Field Communications Protocol provides increased sensor data, part of cost-effective asset management. HART also provides convenient setup, calibration, and diagnostics. Calibrate, set up or perform diagnostics with HART from any point along the 4-20mA line. HART allows for existing component install and wiring to be used, reducing installation costs.

Advanced features of the Ultima XE Monitor include

- DuraSource technology offers improved sensor life.
- FM, UL, CSA, ATEX and IEC approvals.
- World-class design features one electronics board for maximum reliability and service ability. The 316 stainless steel, multiple entry mounting enclosure enables problem free installation and servicing.
- Disconnect under power, allowing for replacement of sensors in hazardous areas.
- Interchangeable smart sensors, making installation and replacement extremely easy. New sensors are recognized, triggering automatic alarm and relay setting reconfiguration.
- State-of-the-art display conveniently alternates between sensor reading and gas type, and features scrolling diagnostic messaging.
- Onboard LEDs and relays provide increased indication of alarm and fault conditions.
- SIL-2 Certified

Part Number	Description
ULTIMA XE-IR LEL	ULTIMA XIR Gas Detector with Infra Red Sensor capable to detect *combustible gases ,Stainless Steel Enclosure & mounting bracket, Explosion Proof, 3 Wire, 4-20 mA output, Optional relay , LED & HART, Large numeric display, sensor guard
ULTIMA XE-IR CO2	ULTIMA XIR Gas Detector with Infra Red Sensor capable to detect Carbon dioxide (CO2) ,Stainless Steel Enclosure & mounting bracket, Explosion Proof, 3 Wire, 4-20 mA output, Optional relay , LED & HART, Large numeric display, sensor guard
ULTIMA XI-IR LEL	ULTIMA XIR Gas Detector with Infra Red Sensor capable to detect *combustible gases ,Stainless Steel Enclosure & mounting bracket, Explosion Proof, 3 Wire, 4-20 mA output, Optional relay, LED & HART, sensor guard



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Your Clean Room Specialist

Series 47K Gas Sensor



MSA remote sensors, Series 47K, are designed to detect potentially hazardous concentrations of flammable gas and vapour in air. A cost effective range of sensors for detecting up to 100% LEL including Poison Resistant, Standard and High Temperature versions. Series 47K sensors are available with either EExd – 3/4" NPT or EExe – M25 junction boxes. A complete range of accessories for calibration, environmental protection, sampling and duct mounting makes it suitable for virtually all applications in combustible gas detection. Series 47K sensors used in combination with MSA Controllers fully meet the requirements of ATEX Directive 94/9/EC, including performance, and can be used as part of a safety related system.

Part Number	Description
10048862	Series 47K Gas Sensor complete with Junction Box, 3/4" NPT thread, SS 316 material
10048272	Series 47K Gas Sensor 3/4" NPT thread, SS 316 material
10048825	Series 47K High Temperature (HT) Gas Sensor 3/4" NPT thread, SS 316 material