

New



ULTIMA XI Gas Monitor

[Infrared technology for combustible gas detection]

The ULTIMA XI Gas Monitor is a microprocessor-based, infrared point gas detector for continuous monitoring of combustible gases and vapours. Designed around a rugged 316 stainless steel enclosure, the ULTIMA XI is dependable in the harshest of environments.

The ULTIMA XI operation is based on dual wavelength – heated optics technology, providing definitive compensation for temperature, humidity and ageing effects. The IR technology offers excellent long-term stability, eliminates the need for frequent calibrations and reduces overall cost of ownership.

MSA

ULTIMA XI features simplest on

[Features & Benefits]

- latest IR technology from high-tech ULTIMA X series
- intelligent calibration cap, no hand-held controller needed
- simplest one-man calibration on the market
- 4–20 mA output
- “Fail to Safety” operation
- 316 St St enclosure for harshest environments
- operates over extended temperature ranges
- immune to poisoning
- operates in high-gas and low-oxygen environments



[Calibration]

The patent pending calibration method of the ULTIMA XI provides the simplest, one-man calibration requirements on the market. Simply place the calibration cap onto the ULTIMA XI and magnetic sensors initiate the calibration. The display on the intrinsically safe calibration cap provides status on zero and span along with final calibration results.



[Applications]

ULTIMA XI Gas Monitor is suitable for indoor and outdoor applications in virtually any type of industry including:

- offshore
- refineries
- chemical and petrochemical facilities
- water and wastewater plants
- general industry



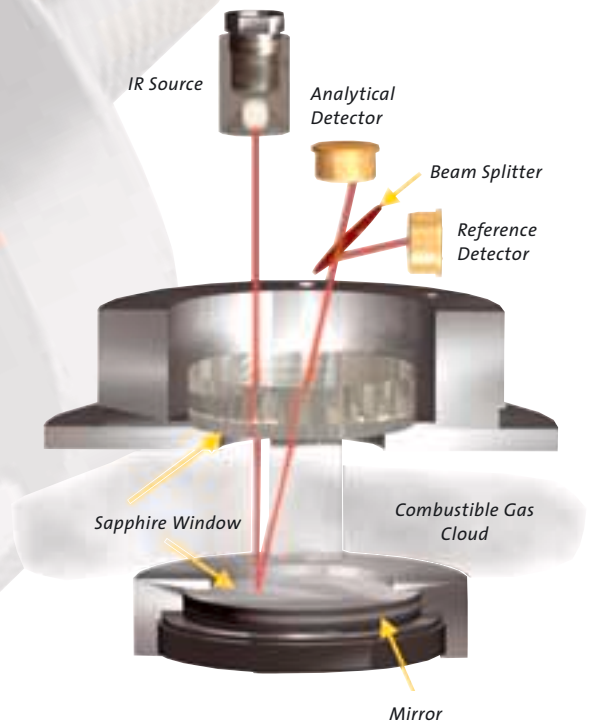
e-man calibration on the market

[IR Technology]

The source emission is directed through a window in the main enclosure into an open volume. A mirror, protected by a second window, directs the energy back into the main enclosure and onto the detectors.

The presence of a combustible gas in the open volume will reduce the intensity of the source emission reaching the detector but not the intensity of the source emission reaching the reference detector.

The microprocessor monitors the ratio of these two signals and correlates this to a % LEL combustible reading.



[Accessories]

Flow Cap

Used when there is a requirement to pump a sample through the sensing module.



Complete Assembly

The optional explosion-proof [NPT] or increased safety [metric] enclosure provide a terminal strip for easy wiring of power and signal.



[Technical Specifications]

Gas Types and Range:	C1–C7 hydrocarbons; 0–100% LEL
Temperature Range:	–40 °C to +60 °C
Stability:	±5% Full Scale/year
Accuracy:	
Repeatability:	±2% Full Scale for 100% LEL
Linearity:	< 2% Full Scale
Response Time:	
T ₉₀ :	< 2 sec. Without environmental or flow cap, as this value will vary.
Humidity:	0%–95% RH, non-condensing
Warranty:	2 years
Power Input:	10–30 VDC @ 200 mA maximum
Wiring Requirements:	3-wire
Signal Output:	4–20 mA current source
Material:	316 Stainless Steel
Physical:	
Weight	2.7 kg
Dimensions	Ø 64 x 203 mm
Approval Ratings:	
CE Low Voltage Directive	73/23/EEC
CE EMC Directive	89/336/EEC
CE ATEX Directive	94/9/EC EEx d IIC T6 [T _{amb} –40 °C to +60 °C]

[Ordering Information]

	Cable Gland 3/4" NPT	Thread Type 25 mm metric
IR Sensor for		
Combustible Gases, Group 3:	10055657	10055655
IR Sensor for		
Combustible Gases, Group 4:	10055658	10055656
Calibration Cap:	10048801	10048801
Flow Cap:	10042600	10042600

[List of Combustible gases]

Compound	Group
Acetone	3
Butadiene [1, 3]	3
Butane	3
Butyl Acetate	4
Cyclohexane	4
Cyclopentane	4
Dimethyl Ether	3
Ethane	3
Ethanol	4
Ethyl Acetate	4
Ethylene	4
Ethylene Oxide	3
Heptane	4
Hexane	4
IsoButane	3
IsoButanol	4
IsoButylene	4
IsoPropanol	4
MEK	4
Methane	3
Methanol	4
Methyl Formate	4
Pentane	4
Propane	3
Propyl Acetate	4
Propyl Alcohol	4
Propylene	3
Propylene Oxide	4
Toluene	4
Xylenes	4

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