

New



Certified to:

ATEX
EN 61779-1
EN 61779-4
EN 60079-0
EN 60079-1
EN 60079-15

All inclusive!

ULTIMA® XL/XT Series Gas Monitors

[Ultimate Features – Extreme Design]

MSA
The Safety Company



Cost effective fixed installation gas monitors with HART Field Communications Protocol. Single-sensor units use catalytic, electrochemical and infrared gas detection technologies for detection of combustible and toxic gases and for oxygen deficiency.

[Ultimate features. Extreme design.]

Reliable and affordable.]

ULTIMA XL/XT Series Gas Monitors offer an affordable choice in continuous gas detection and monitoring while retaining key features and sensors of MSA's ULTIMA X Series Gas Monitors. HART Field Communications Protocol running over 4–20 mA output provides convenient setup, calibration, and diagnostics. The handheld HART communicator, controller or laptop provides a display, while local calibration employs LEDs and push-buttons.

The ULTIMA XL Gas Monitor is explosion-proof with a stainless steel enclosure, while the ULTIMA XT Gas Monitor uses a general purpose plastic housing. The enclosure for the ULTIMA XL Gas Monitor has three entryways for sensor, intrinsically safe HART port and signal/power wiring.

These versatile units are well-suited for both indoor and outdoor applications within oil and gas, chemical and petro-chemical facilities, refineries, steel mills, water and wastewater treatment plants, general industry and many others.

[Key Features]

- Sensor disconnect-under-power without declassifying a hazardous area
- Interchangeable smart sensors; no reconfiguration required
- One circuit board for increased reliability and easier serviceability
- Calibrate, set up or perform diagnostics with HART from any point along the 4–20 mA line
- Easy installation with two-piece field-wiring connectors
- Asset management using HART interface
- Adjustable full-scale range

[Calibration Options]

- Internal push-button and LEDs provide local intrusive calibration
- Utilize handheld communicator, host DCS or laptop
- Automatic calibration adjustments and date stamping
- Selectable lockout of output signal during calibration

ULTIMA® XL/XT Series Gas Monitors

[ULTIMA XL Gas Monitor – Explosion-Proof Stainless Steel Gas Detector]

- 316 Stainless Steel
- Multiple-entry mounting enclosure
- Intrinsically safe HART port
- IP 66 rated



[ULTIMA XT Gas Monitor – Water- and Corrosion- Resistant, All-Purpose, Polycarbonate Gas Detector]



- Nema 4X-IP 56 rating
- Light-weight [only 0.8 kg]
- HART port

[ULTIMA XL IR Combustible Gas Monitor – Explosion-Proof Stainless Steel, Infrared Gas Detector]

- 316 Stainless Steel
- Multiple-entry mounting enclosure
- Intrinsically safe HART port
- Fast response time
- Operation based on dual-wavelength, heated-optics technology, providing definitive compensation for temperature, humidity and aging effects
- IR technology offers excellent long-term stability, eliminating the need for frequent calibrations
- A sintered-disk-free design for optimum performance in harsh environments
- Minimum downtime for gas calibration, a zero adjustment is mostly all that is required for full calibration
- IP 66 rated



[Technical Specifications]

Gas Types	XL, XT	Combustibles, oxygen and toxics
	XL IR	Combustibles; 0–100% LEL
Temperature Range	XL, XT, XL IR	–40 °C to +60 °C [–40 °F to +140 °F] [Typical – range for some gases may differ]
Drift		
Zero Drift	XL, XT	<5% per year, typical
	XL IR	±2% per year, typical
Span Drift	XL, XT	<10% per year, typical
Noise	XL, XT, XL IR	<1% Full Scale
Accuracy		
Repeatability	XL, XT, XL IR	±1% Full Scale or 2 ppm, typical
Linearity	XL, XT	±2% Full Scale or 2 ppm, [O ₂ , CO]
	XL IR	±2% Full Scale [≤50% LEL]
	XL, XT	±3% Full Scale [≤50% LEL combustibles]
	XL, XT, XL IR	±5% Full Scale [≥50% LEL combustibles]
	XL, XT	±10% Full Scale or 2 ppm, [non-CO toxics]
Response Times		
τ ₂₀ O ₂ & toxics	XL, XT	<12 seconds [typically 6 seconds]
τ ₅₀ O ₂ & toxics	XL, XT	<30 seconds [typically 12 seconds]
τ ₅₀ combustibles	XL, XT	<10 seconds
τ ₉₀ combustibles	XL, XT	<30 seconds
τ ₉₀ combustibles	XL IR	<2 seconds
Humidity		
	XL, XT	15% – 95% RH, non-condensing
	XL IR	0% – 95% RH, non-condensing
Sensor Life		
Oxygen & Toxics	XL, XT	2 years typical
Combustibles	XL, XT	3 years typical
Combustibles	XL IR	5 years typical
Power Input		
	XL, XT	8 – 30 VDC [oxygen and toxics]
	XL, XT	8 – 30 VDC @ 450 mA maximum [combustibles]
	XL IR	8 – 30 VDC @ 750 mA maximum [combustibles]
Wiring Requirements		
Combustibles	XL, XT, XL IR	3-wire; LEDs and no relays
Oxygen & Toxics	XL, XT	3-wire; LEDs and no relays
Signal Output	XL, XT, XL IR	4 – 20 mA 3-wire current source, HART
Housing Entries		
	XL, XL IR	Three conduit entries, 3/4" NPT or 25 mm
	XT	Two entries
Physical		
	XL	316 Stainless Steel; 3.5 kg; 180 x 103 x 224 mm [W x D x L]
	XT	Polycarbonate; 0.8 kg; 157 x 76 x 239 mm [W x D x L]
	XL IR	316 Stainless Steel; 3.6 kg; 288 x 104 x 159 mm [W x D x L]
Warranty		
	XL, XT	1 year
	XL IR	2 years
Approval Ratings		
	XL	Europe
		 II 2 [2] G Ex d [ib] IIC T6
		II 3 [2] G Ex nA [ib] IIC T6
		IP 66
		USA/Canada
		Class I, Div. 1 & 2, Groups A, B, C, & D
		Class I, Zone 1 & 2, Groups IIC, IIB & IIA, T6
		Type 4X, IP 66
		International
		IEC EX scheme
		Ex d nA [ib] IIC T6
		IP 66

[Ordering Information]

		3/4" NPT	25 mm metric
ULTIMA XL Housing & PCB			
With HART port		10094883	10094885
Without HART port		10094884	10094886
ULTIMA XL Sensors			
Infrared Sensors			
Combustible Gases, Group 3	0 – 100% LEL	10044425	10044449
Combustible Gases, Group 4	0 – 100% LEL	10044426	10044450
Catalytic Sensors			
Combustible Gases, Group 1	0 – 100% LEL	10044423	10044447
Combustible Gases, Group 2	0 – 100% LEL	10044424	10044448
Electrochemical Sensors			
Arsine	0 – 2 ppm	10044428	10044452
Carbon Monoxide	0 – 100 ppm	10044364	10044433
Carbon Monoxide	0 – 500 ppm	10044365	10044434
Germane	0 – 3 ppm	10044430	10044454
Hydrogen	0 – 1000 ppm	10044432	10044456
Hydrogen Cyanide	0 – 50 ppm	10044422	10044446
Hydrogen Sulphide	0 – 10 ppm	10044368	10044440
Hydrogen Sulphide	0 – 50 ppm	10044369	10044442
Hydrogen Sulphide	0 – 100 ppm	10044420	10044444
Nitric Oxide	0 – 100 ppm	10044421	10044445
Oxygen	0 – 10%	10044366	10044436
Oxygen	0 – 25%	10044367	10044438
Phosphine	0 – 2 ppm	10044427	10044451
Silane	0 – 25 ppm	10044429	10044453
ULTIMA XT Complete Unit			
Ammonia	0 – 50 ppm	10095397	
Ammonia	0 – 100 ppm	10094890	
Ammonia	0 – 1000 ppm	10095398	
Arsine	0 – 2 ppm	10095401	
Bromine	0 – 5 ppm	10095370	
Carbon Monoxide	0 – 100 ppm	10095392	
Carbon Monoxide	0 – 500 ppm	10094887	
Carbon Monoxide	0 – 1000 ppm	10095393	
Chlorine	0 – 5 ppm	10094891	
Chlorine	0 – 10 ppm	10095399	
Chlorine	0 – 20 ppm	10095400	
Chlorine Dioxide	0 – 3 ppm	10095391	
Diborane	0 – 50 ppm	10095365	
Ethylene Oxide	0 – 10 ppm	10095366	
Fluorine	0 – 5 ppm	10095367	
Germane	0 – 3 ppm	10095402	
Hydrogen	0 – 1000 ppm	10095403	
Hydrogen Chloride	0 – 50 ppm	10095369	
Hydrogen Cyanide	0 – 50 ppm	10095363	
Hydrogen Fluoride	0 – 10 ppm	10095368	
Hydrogen Sulphide	0 – 10 ppm	10095394	
Hydrogen Sulphide	0 – 50 ppm	10095395	
Hydrogen Sulphide	0 – 100 ppm	10094888	
Hydrogen Sulphide	0 – 500 ppm	10095396	
Nitric Oxide	0 – 10 ppm	10095404	
Nitrogen Dioxide	0 – 10 ppm	10094892	
Oxygen	0 – 10%	10095303	
Oxygen	0 – 25%	10094889	
Phosphine	0 – 2 ppm	10095405	
Silane	0 – 25 ppm	10095406	
Sulphur Dioxide	0 – 25 ppm	10095407	
Sulphur Dioxide	0 – 100 ppm	10095408	
ULTIMA XL Accessories			
Mounting bracket		10047562	
Duct mount kit		on request	
Mounting bracket with duct mount kit		on request	
SensorGard for XL/XE		10028904	
SensorGard for XLIR/XIR		10041265	
Flow cap for XL/XE		10041866	
Flow cap for XLIR/XIR		10042600	

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