

# ULTIMA® X5000 Gas Monitor

Built for Tomorrow's Demands, Today.



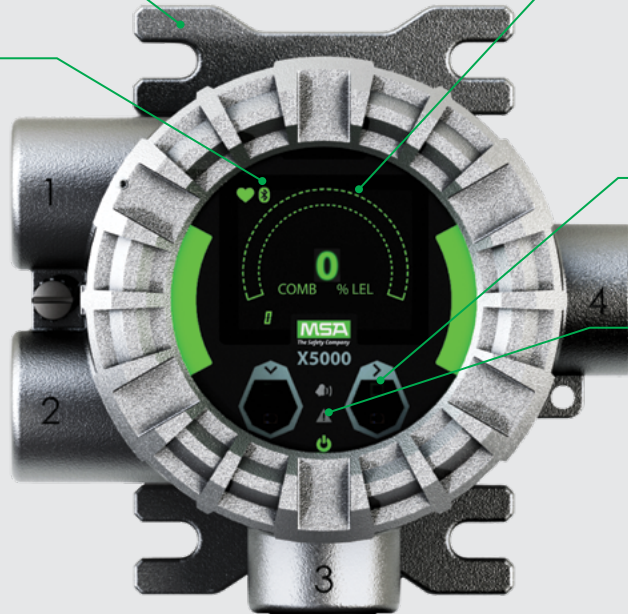
Simple retrofits have identical footprint and wiring to ULTIMA X Gas Monitor series.

Bluetooth® wireless technology allows mobile device to act as HMI screen and controller.

Intuitive display features organic LED (OLED) display, with full word text in 9 languages. Bright green, yellow, and red status LEDs for extreme visibility.

Industry-first, touch-button interface provides intuitive, tool-free user experience.

Instrument status indicators illuminate power, fault, and alarm conditions.



X/S Connect App

Streamline setup for faster configuration with the X/S Connect App.



Remote monitoring & notifications with FGFD FieldServer IoT Gateways

## Advanced Sensor Technology

POWERED BY

**XCell**  
SENSORS

WITH

**TruCal**  
TECHNOLOGY

- Patented XCell H<sub>2</sub>S and CO Sensors with TruCal technology extend calibration cycles for as long as 2 years, actively monitor sensor integrity, and compensate for environmental factors and electrochemical sensor drift.
  - **Diffusion Supervision** sends acoustic signal every 6 hours to check that sensor inlet isn't obstructed so gas can reach the sensor.
  - Worry-free operation—automatically self-checks four times per day.
- 3-year warranty and 5-year expected life for XCell Sensors.
- **Dual sensor capability** doubles sensing power with half the footprint of a single gas sensor transmitter.
- **SafeSwap** enables safe and quick XCell Sensor replacement without powering off gas detector.

### Applications

- Chemical
- Oil and gas
- Petrochemical
- Utilities
- Wastewater
- General industry



**SafeSwap**®

**SAFEGUARDING PEOPLE,  
PLACES & THE PLANET.**

# ULTIMA X5000 Gas Monitor: Sensor Specifications



Electrochemical Sensors													
Gas	Default Range	Selectable Full Scale Range	Resolution	Response Time*		Repeatability	Zero Drift	Operating Temperature		Sensor Type	Sensor Life	Warranty	Classification
				T50	T90			Min.	Max.				
Ammonia - 100	0 - 100 ppm	25 - 100 ppm	1 ppm	< 20 Sec	< 60 Sec	< ±1%	< 1% FS / Month	-30°C (-22°F)	50°C (122°F)	XCell	5 Years	3 Years	Div/Zone 2
Ammonia - 1000	0 - 1000 ppm	190 - 1000 ppm	10 ppm	< 20 Sec	< 300 Sec	< ±15%	< 1% FS / Month	-30°C (-22°F)	50°C (122°F)	Echem	2 Years	1 Year	Div/Zone 2
Carbon Monoxide - 100	0 - 100 ppm	10 - 1000 ppm	1 ppm	—	< 9 Sec	< ±2%	< 1% FS / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Carbon Monoxide - 1000	0 - 1000 ppm	10 - 1000 ppm	1 ppm	—	< 9 Sec	< ±2%	< 1% FS / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Carbon Monoxide - 500	0 - 500 ppm	10 - 1000 ppm	1 ppm	—	< 9 Sec	< ±2%	< 1% FS / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Carbon Monoxide H <sub>2</sub> Resistant	0 - 100 ppm	10 - 1000 ppm	1 ppm	—	< 9 Sec	< ±2%	< 1% FS / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Chlorine - 5	0 - 5 ppm	1 - 20 ppm	0.1 ppm	—	< 12 Sec	±1%	< 1% FS / Month	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 2
Chlorine - 10	0 - 10 ppm	1 - 20 ppm	0.1 ppm	—	< 12 Sec	±1%	< 1% FS / Month	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 2
Chlorine - 20	0 - 20 ppm	1 - 20 ppm	0.1 ppm	—	< 12 Sec	±1%	< 1% FS / Month	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 2
Chlorine Dioxide	0 - 3 ppm	0.5-3.0 ppm	0.01 ppm	< 12 Sec	< 30 Sec	< ±15%	< 1% FS / Month	-40°C (-40°F)	50°C (122°F)	XCell	5 Years	3 Years	Div/Zone 2
Ethylene Oxide	0 - 10 ppm	1 - 10 ppm	0.1 ppm	< 50 Sec	< 140 Sec	< ±15%	< 1% FS / Month	-20°C (-4°F)	40°C (104°F)	Echem	2 Years	1 Year	Div/Zone 2
Hydrogen	0 - 1000 ppm	250 - 1000 ppm	10 ppm	< 40 Sec	< 185 Sec	< ±10%	< 1% FS / Month	-20°C (-4°F)	50°C (122°F)	Echem	2 Years	1 Year	Div/Zone 1
Hydrogen Chloride	0 - 50 ppm	25 - 50 ppm	1 ppm	< 30 Sec	< 120 Sec	< ±35%	< 1% FS / Month	-20°C (-4°F)	40°C (104°F)	Echem	2 Years	1 Year	Div/Zone 2
Hydrogen Cyanide	0 - 50 ppm	25 - 50 ppm	1 ppm	< 30 Sec	< 70 Sec	< ±15%	< 1% FS / Month	-20°C (-4°F)	40°C (104°F)	Echem	2 Years	1 Year	Div/Zone 1
Hydrogen Fluoride	0 - 10 ppm	5 - 10 ppm	0.1 ppm	< 60 Sec	< 90 Sec	< ±15%	< 1% FS / Month	0°C (32°F)	50°C (122°F)	Echem	2 Years	1 Year	Div/Zone 2
Hydrogen Sulfide - 10	0 - 10 ppm	10 - 100 ppm	0.1 ppm	—	< 23 Sec	< ±1%	< 1% FS / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Hydrogen Sulfide - 50	0 - 50 ppm	10 - 100 ppm	0.1 ppm	—	< 23 Sec	< ±1%	< 1% FS / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Hydrogen Sulfide - 100	0 - 100 ppm	10 - 100 ppm	0.1 ppm	—	< 23 Sec	< ±1%	< 1% FS / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Hydrogen Sulfide - 500	0 - 500 ppm	20 - 500 ppm	1 ppm	< 20 Sec	< 60 Sec	< ±10%	< 1% FS / Month	-20°C (-4°F)	40°C (104°F)	Echem	2 Years	1 Year	Div/Zone 1
Nitrogen Dioxide	0 - 10 ppm	1.5 - 10 ppm	0.1 ppm	< 30 Sec	< 60 Sec	< ±10%	< 1% FS / Month	-20°C (-4°F)	50°C (122°F)	Echem	2 Years	1 Year	Div/Zone 2
Nitrogen Oxide	0 - 100 ppm	2.5 - 100 ppm	0.5 ppm	< 5 Sec	< 20 Sec	< ±15%	< 1% FS / Month	-30°C (-22°F)	40°C (104°F)	Echem	2 Years	1 Year	Div/Zone 1
Oxygen	0 - 25%	5 - 25%	0.10%	—	< 11 Sec	< ±1% Vol	0.2 % Vol / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Oxygen (FM)	0 - 25%	5 - 25%	0.10%	—	< 11 Sec	< ±1% Vol	0.2 % Vol / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Oxygen, Low	0 - 25%	2 - 25%	0.10%	—	< 30 Sec	< ±10%	< 1% FS / Month	-20°C (-4°F)	50°C (122°F)	Echem	2 Years	1 Year	Div/Zone 1
Sulfur Dioxide - 100	0 - 100 ppm	25 - 100 ppm	0.5 ppm	< 10 Sec	< 30 Sec	< ±15%	< 1% FS / Month	-20°C (-4°F)	50°C (122°F)	Echem	2 Years	1 Year	Div/Zone 2
Sulfur Dioxide - 25	0 - 25 ppm	5 - 25 ppm	0.1 ppm	—	< 6 Sec	< ±1%	< 1% FS / Month	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 2

\*Typical response at standard temperature and pressure test conditions

# ULTIMA X5000 Gas Monitor: Sensor Specifications



XCell Catalytic Bead Sensors													
Gas	Default Range	Selectable Full Scale Range	Resolution	Response Time*		Repeatability	Zero Drift	Operating Temperature		Sensor Type	Sensor Life	Warranty	Classification
				T50	T90			Min.	Max.				
Methane (5.0%)	0 - 100% LEL	20 - 100% LEL	1%	—	< 22 Sec	±1% LEL	< 5% LEL / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Propane (2.1%)	0 - 100% LEL	20 - 100% LEL	1%	—	< 22 Sec	±1% LEL	< 5% LEL / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Heptane (1.05%)	0 - 100% LEL	20 - 100% LEL	1%	—	< 22 Sec	±1% LEL	< 5% LEL / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Nonane (0.8%)	0 - 100% LEL	20 - 100% LEL	1%	—	< 22 Sec	±1% LEL	< 5% LEL / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Hydrogen (4.0%)	0 - 100% LEL	20 - 100% LEL	1%	—	< 22 Sec	±1% LEL	< 5% LEL / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Methane (4.4% EN)	0 - 100% LEL	20 - 100% LEL	1%	—	< 22 Sec	±1% LEL	< 5% LEL / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Propane (1.7% EN)	0 - 100% LEL	20 - 100% LEL	1%	—	< 22 Sec	±1% LEL	< 5% LEL / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Heptane (0.85% EN)	0 - 100% LEL	20 - 100% LEL	1%	—	< 22 Sec	±1% LEL	< 5% LEL / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1
Nonane (0.7% EN)	0 - 100% LEL	20 - 100% LEL	1%	—	< 22 Sec	±1% LEL	< 5% LEL / Year	-40°C (-40°F)	60°C (140°F)	XCell	5 Years	3 Years	Div/Zone 1

ULTIMA XIR Plus Infrared Sensors													
Gas	Default Range	Selectable Full Scale Range	Resolution	Response Time*		Repeatability	Zero Drift	Operating Temperature		Sensor Life	Warranty	Classification	
				T50	T90			Min.	Max.				
XIR+ 0-100% LEL Ethanol	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Ethylene Oxide	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Gasoline Hexane	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Hexane	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Isopropanol	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Methane (5%)	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Methyl Methacrylate	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Propane (2.1%)	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Ethanol EN	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Ethylene Oxide EN	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Gasoline Hexane EN	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Methane (4.4%) EN	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ 0-100% LEL Propane (1.7%) EN	0 - 100% LEL	20 - 100% LEL	1%	—	< 6 Sec	±1% LEL	<2% LEL/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ Carbon Dioxide (2%)	0 - 2% Vol	0.4 - 2%	0.05%	—	< 6 Sec	±1%	<2% FS/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	
XIR+ Carbon Dioxide (5%)	0 - 5% Vol	1 - 5%	0.05%	—	< 6 Sec	±1%	<2% FS/Year	-40°C (-40°F)	60°C (140°F)	10+ Years	10 Years	Div/Zone 1	

\*Typical response at standard temperature and pressure test conditions

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



## Specifications

Product Specifications	
<b>COMBUSTIBLE GAS SENSOR TYPE</b>	Catalytic Bead (XCell combustible) Infrared (XIR Plus)
<b>TOXIC GAS &amp; OXYGEN SENSOR TYPE</b>	<p><b>XIR PLUS</b> Carbon Dioxide (CO<sub>2</sub>)</p> <p><b>XCell Toxic</b> Ammonia (NH<sub>3</sub>), Carbon Monoxide (CO), Carbon Monoxide (CO) H<sub>2</sub>-resistant, Hydrogen Sulfide (H<sub>2</sub>S), Chlorine (Cl<sub>2</sub>), Chlorine Dioxide (ClO<sub>2</sub>) Sulfur Dioxide (SO<sub>2</sub>)</p> <p><b>XCell O<sub>2</sub></b> Oxygen (O<sub>2</sub>)</p> <p><b>Electrochem.</b> Ammonia (NH<sub>3</sub>), Ethylene Oxide (ETO) Hydrogen (H<sub>2</sub>), Hydrogen Chloride (HCl), Hydrogen Cyanide (HCN), Hydrogen Fluoride (HF) Nitric Oxide (NO), Nitrogen Dioxide (NO<sub>2</sub>), Sulfur Dioxide (SO<sub>2</sub>)</p>
<b>SENSOR MEASURING RANGES</b>	<p><b>Combustible</b> 0-100% LEL</p> <p><b>CO<sub>2</sub></b> 0-2%, 0-5% Vol</p> <p><b>CO</b> 0-100, 0-500, 0-1000 ppm</p> <p><b>CO, H<sub>2</sub>-resistant</b> 0-100 ppm</p> <p><b>Cl<sub>2</sub></b> 0-5, 0-10, 0-20 ppm</p> <p><b>ClO<sub>2</sub></b> 0-3 ppm</p> <p><b>ETO</b> 0-10 ppm</p> <p><b>H<sub>2</sub></b> 0-1000 ppm</p> <p><b>HCl</b> 0-50 ppm</p> <p><b>HCN</b> 0-50 ppm</p> <p><b>HF</b> 0-10 ppm</p> <p><b>H<sub>2</sub>S</b> 0-10, 0-50, 0-100, 0-500 ppm</p> <p><b>NH<sub>3</sub></b> 0-100, 0-1000 ppm</p> <p><b>NO</b> 0-100 ppm</p> <p><b>NO<sub>2</sub></b> 0-10 ppm</p> <p><b>O<sub>2</sub></b> 0-25%</p> <p><b>SO<sub>2</sub></b> 0-25, 0-100 ppm</p>
<b>APPROVALS CLASSIFICATION</b>	<i>Markings vary by component. See manual for specific component markings.</i>
<b>DIVISIONS (US/CAN)</b>	Class I, II, III; Div 1 & 2, T4/T5/T6
<b>ZONES (GLOBAL)</b>	Ex db nA IIC T5 Gb (Class I, Zone 1/Zone2) Ex tb IIIC T85°C Db (Class II, Zone 2I)
<b>ENCLOSURE RATING</b>	Type 4X, IP66
<b>WARRANTY</b>	<p><b>X5000 transmitter</b> 2 years</p> <p><b>XIR PLUS</b> 10 years source, 5 years electronics</p> <p><b>XCell Sensors</b> 3 years</p> <p><b>Electrochemical Sensors</b> Varies by gas</p>
<b>APPROVALS</b>	CSA, FM*, ATEX, UKCA, IECEx, INMETRO, DNV-GL Marine, CE Marking, SIL 2 suitable. Complies with C22.2 No. 152, FM 6320

See manual for FM approved sensors.

Environmental Specifications																															
<b>OPERATING TEMPERATURE RANGE</b>	<p><b>XCell</b> -40°C to +60°C</p> <p><b>Electrochem.</b> See page 2</p> <p><b>XIR PLUS</b> -40°C to +60°C</p>																														
<b>RELATIVE HUMIDITY (NON-CONDENSING)</b>	<p><b>XCell sensors except O<sub>2</sub></b> 5-95%</p> <p><b>XCell O<sub>2</sub></b> 10-95%</p> <p><b>XIR PLUS</b> 5-95%</p> <p><b>Electrochem</b> 15-90%</p>																														
Electrical Specifications																															
<b>INPUT POWER</b>	11 to 30 VDC, 3 wire																														
<b>SIGNAL OUTPUT</b>	Dual 4-20 mA current source, HART																														
<b>BLUETOOTH (OPTIONAL)</b>	Bluetooth Low Energy (BLE) v4.3 or higher																														
<b>RELAY RATINGS</b>	5 A @ 30 VDC; 5 A @ 250 VAC (3X) SPDT - fault, warn, alarm																														
<b>RELAY MODES</b>	Common, discrete, horn																														
<b>NORMAL MAX POWER</b>	<table border="1"> <thead> <tr> <th></th> <th>Without Relays</th> <th>With Relays</th> </tr> </thead> <tbody> <tr> <td><b>XIR PLUS</b></td> <td>5.7 W</td> <td>6.7 W</td> </tr> <tr> <td><b>XCell combustible</b></td> <td>3.9 W</td> <td>4.9 W</td> </tr> <tr> <td><b>XCell Toxic &amp; O<sub>2</sub></b></td> <td>1.8 W</td> <td>2.8 W</td> </tr> <tr> <td><b>XIR PLUS &amp; XCell combustible</b></td> <td>9.9 W</td> <td>10.9 W</td> </tr> <tr> <td><b>XIR PLUS &amp; XCell toxic or O<sub>2</sub></b></td> <td>6.0 W</td> <td>7.0 W</td> </tr> <tr> <td><b>Dual XIR PLUS</b></td> <td>10.6 W</td> <td>11.6 W</td> </tr> <tr> <td><b>Dual XCell toxic &amp; O<sub>2</sub></b></td> <td>2.6 W</td> <td>3.6 W</td> </tr> <tr> <td><b>Dual XCell combustible</b></td> <td>9.6 W</td> <td>10.6 W</td> </tr> <tr> <td><b>Dual XCell comb. &amp; XCell toxic or O<sub>2</sub></b></td> <td>4.3 W</td> <td>5.3 W</td> </tr> </tbody> </table>		Without Relays	With Relays	<b>XIR PLUS</b>	5.7 W	6.7 W	<b>XCell combustible</b>	3.9 W	4.9 W	<b>XCell Toxic &amp; O<sub>2</sub></b>	1.8 W	2.8 W	<b>XIR PLUS &amp; XCell combustible</b>	9.9 W	10.9 W	<b>XIR PLUS &amp; XCell toxic or O<sub>2</sub></b>	6.0 W	7.0 W	<b>Dual XIR PLUS</b>	10.6 W	11.6 W	<b>Dual XCell toxic &amp; O<sub>2</sub></b>	2.6 W	3.6 W	<b>Dual XCell combustible</b>	9.6 W	10.6 W	<b>Dual XCell comb. &amp; XCell toxic or O<sub>2</sub></b>	4.3 W	5.3 W
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<b>EMC DIRECTIVE</b>	Complies with EN 50270, EN 61000-6-4																														
<b>DISPLAY</b>	Organic LED (multi-lingual) with contrast ratio of 2000:1 and view angle of 160°																														
<b>RS-485 OUTPUT</b>	Modbus RTU, suitable for linking up to 128 units or up to 247 with repeaters																														
<b>HART</b>	HART 7, HART device description language available																														
<b>FAULTS MONITORED</b>	Low supply voltage, RAM checksum error, flash checksum error, EEPROM error, internal circuit error, relay, invalid sensor configuration, sensor faults, general system																														
<b>CABLE REQUIREMENTS</b>	3-wire shielded cable for single sensor and 4-wire shielded cable for dual sensor configurations. <i>Refer to manual for wiring and mounting distances.</i>																														
Mechanical Specifications																															
<b>HOUSING (W x H)</b>	5.88" x 5.71" (150 x 145 mm)																														
<b>W/XCELL SENSOR</b>	5.88" x 10.15" (150 x 258 mm)																														
<b>W/XCELL &amp; XIR SENSORS</b>	13.42" x 10.15" (341 x 258 mm)																														
<b>LID (DEPTH)</b>																															
<b>W/RELAY BOARD</b>	4.86" (123 mm)																														
<b>W/O RELAY BOARD</b>	3.86" (98 mm)																														
<b>WEIGHT</b>	8.8 lb. (4 kg), 316 SS																														

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.msasafety.com/Trademarks>.

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