S5000 **Gas Monitor**

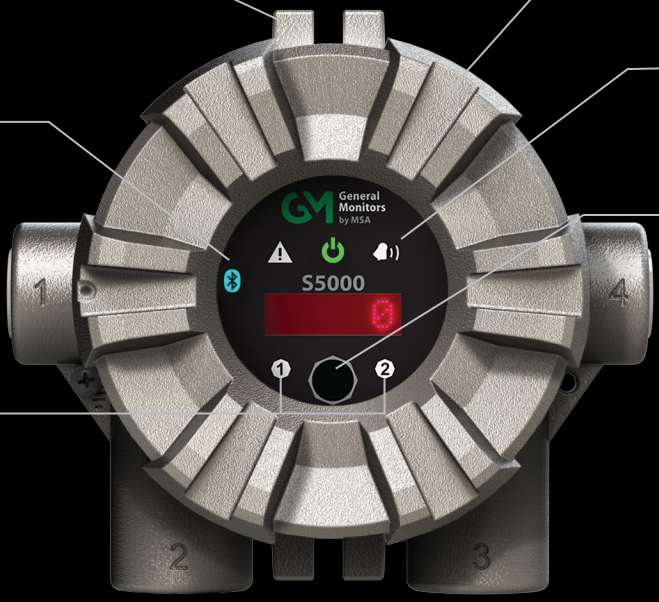
Extreme Durability. Anytime. Anywhere.

General Monitors

Simple retrofits have identical footprint and wiring to S4000 Gas Monitor series.

Bluetooth® wireless technology allows mobile device to act as HMI screen and controller via the X/S Connect App.

Dual sensor capability increases detection coverage without increasing CAPEX expense. Remote mount gas sensors up to 100 m away.



Wide operating temperature for extreme environments (-55°C to +75°C).

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

Intuitive user experience with industry-first touch-button interface or familiar magnetic interface.

X/S Connect App

Reduce setup time by at least 50% with the X/S Connect App.

GET IT ON Google Play | Download on the App Store

Advanced Sensor Technology

POWERED BY XCell SENSORS WITH TruCal® TECHNOLOGY

- Patented XCell H_2S 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.
- Three-year warranty and five-year expected life for XCell Sensors.
- **SafeSwap** enables safe and quick XCell Sensor replacement without powering off gas detector.

SafeSwap®

Applications

- Compressor stations
- CNG maintenance facilities
- Drilling and production platforms
- Fuel loading facilities
- LNG/LPG processing and storage
- Oil well logging
- Petrochemical
- Refineries

MSA *The Safety Company*

WE KNOW WHAT'S AT STAKE.

S5000 **Gas Monitor**

Sensor Specifications

General Monitors by MSA

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	0.1 ppm	< 20 Sec	< 60 Sec	< +/- 1%	<1% FS / Month	-40 C (-40 F)	60 C (140 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	< 3 Sec	< 9 Sec	< +/- 1%	<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	< 3 Sec	< 9 Sec	< +/- 1%	<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	< 3 Sec	< 9 Sec	< +/- 1%	<1% FS / Year	-40 C (-40 F)	60 C (140 F)	XCell	5 Years	3 Years	Div/Zone 1
Carbon Monoxide - H2 Resistant	0 - 100 ppm	10 - 1000 ppm	1 ppm	< 3 Sec	< 9 Sec	< +/- 1%	<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	< 5 Sec	< 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	< 5 Sec	< 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	< 5 Sec	< 12 Sec	< +/- 1%	<1% FS / Month	-40 C (-40 F)	60 C (140 F)	XCell	5 Years	3 Years	Div/Zone 2
Hydrogen	0 - 1000 ppm	250 - 1000 ppm	10 ppm	< 40 Sec	< 185 Sec	< +/- 10%	<1% FS / Month	-30 C (-22 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	-30 C (-22 F)	40 C (104 F)	Echem	2 Years	1 Year	Div/Zone 2
Hydrogen Cyanide	0 - 50 ppm	25 - 50 ppm	1 ppm	< 8 Sec	< 30 Sec	< +/- 15%	<1% FS / Month	-20 C (-4 F)	40 C (40 F)	Echem	2 Years	1 Year	Div/Zone 1
Hydrogen Sulfide - 10	0 - 10 ppm	10 - 100 ppm	0.1 ppm	< 7 Sec	<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	< 7 Sec	<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	< 7 Sec	<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	-40 C (-40 F)	50 C (122 F)	Echem	2 Years	1 Year	Div/Zone 1
Nitric Oxide	0 - 100 ppm	2.5 - 100 ppm	0.5 ppm	< 5 Sec	< 20 Sec	<+/-15%	<1% FS / Month	-30 C (-22 F)	50C (122 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	-40 C (-40 F)	50 C (122 F)	Echem	2 Years	1 Year	Div/Zone 2
Oxygen/Oxygen (FM)	0 - 25%	5 - 25%	0.10%	< 6 Sec	< 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%	< 10 Sec	< 30 Sec	< +/- 10%	<1% FS / Month	-30 C (-22 F)	50 C (122 F)	Echem	2 Years	1 Year	Div/Zone 1
Sulfur Dioxide - 100	0 - 100 ppm	25 - 100 ppm	1 ppm	< 10 Sec	< 30 Sec	< +/- 15%	<1% FS / Month	-30 C (-22 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	< 3 Sec	< 6 Sec	< +/- 1%	<1% FS / Month	-40 C (-40 F)	60 C (140 F)	XCell	5 Years	3 Years	Div/Zone 2

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%	< 10 Sec	< 22 Sec	< +/- 1% LEL	<5% LEL / Year	-55 C (-67 F)	60 C (140 F)	XCell Cat Bead	5 Years	3 Years	Div/Zone 1
Propane (2.1 %)	0 - 100% LEL	20 - 100% LEL	1%	< 10 Sec	< 22 Sec	< +/- 1% LEL	<5% LEL / Year	-55 C (-67 F)	60 C (140 F)	XCell Cat Bead	5 Years	3 Years	Div/Zone 1
Heptane (1.05 %)	0 - 100% LEL	20 - 100% LEL	1%	< 10 Sec	< 22 Sec	< +/- 1% LEL	<5% LEL / Year	-55 C (-67 F)	60 C (140 F)	XCell Cat Bead	5 Years	3 Years	Div/Zone 1
Nonane (0.8 %)	0 - 100% LEL	20 - 100% LEL	1%	< 10 Sec	< 22 Sec	< +/- 1% LEL	<5% LEL / Year	-55 C (-67 F)	60 C (140 F)	XCell Cat Bead	5 Years	3 Years	Div/Zone 1
Hydrogen (4.0 %)	0 - 100% LEL	20 - 100% LEL	1%	< 10 Sec	< 22 Sec	< +/- 1% LEL	<5% LEL / Year	-55 C (-67 F)	60 C (140 F)	XCell Cat Bead	5 Years	3 Years	Div/Zone 1
Methane (4.4 % EN)	0 - 100% LEL	20 - 100% LEL	1%	< 10 Sec	< 22 Sec	< +/- 1% LEL	<5% LEL / Year	-55 C (-67 F)	60 C (140 F)	XCell Cat Bead	5 Years	3 Years	Div/Zone 1
Propane (1.7 % EN)	0 - 100% LEL	20 - 100% LEL	1%	< 10 Sec	< 22 Sec	< +/- 1% LEL	<5% LEL / Year	-55 C (-67 F)	60 C (140 F)	XCell Cat Bead	5 Years	3 Years	Div/Zone 1
Heptane (0.85 % EN)	0 - 100% LEL	20 - 100% LEL	1%	< 10 Sec	< 22 Sec	< +/- 1% LEL	<5% LEL / Year	-55 C (-67 F)	60 C (140 F)	XCell Cat Bead	5 Years	3 Years	Div/Zone 1
Nonane (0.7 % EN)	0 - 100% LEL	20 - 100% LEL	1%	< 10 Sec	< 22 Sec	< +/- 1% LEL	<5% LEL / Year	-55 C (-67 F)	60 C (140 F)	XCell Cat Bead	5 Years	3 Years	Div/Zone 1

** At ambient conditions*

S5000 **Gas Monitor**

Sensor Specifications

General Monitors by MSA

Infrared 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				
IR400 0-100 % LEL Propane	0 - 100% LEL	N/A	1% LEL	< 1.5 Sec	< 3 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-40 C (-40 F)	75 C (167 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100% LEL Hexane	0 - 100% LEL	N/A	1% LEL	< 1.5 Sec	< 3 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-40 C (-40 F)	75 C (167 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100% LEL Pentane	0 - 100% LEL	N/A	1% LEL	< 1.5 Sec	< 3 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-40 C (-40 F)	75 C (167 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100 % LEL Ethylene	0 - 100% LEL	N/A	1% LEL	< 2 Sec	< 4 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-40 C (-40 F)	60 C (140 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100% LEL Butane	0 - 100% LEL	N/A	1% LEL	< 1.5 Sec	< 3 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-40 C (-40 F)	75 C (167 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100% LEL Ethane	0 - 100% LEL	N/A	1% LEL	< 1.5 Sec	< 3 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-40 C (-40 F)	75 C (167 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100% by Volume Methane	0 - 100% LEL	N/A	1% LEL	< 1.5 Sec	< 3 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-40 C (-40 F)	75 C (167 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100 % LEL Methane EN	0 - 100% LEL	N/A	1% LEL	< 1.5 Sec	< 3 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-60 C (-76 F)	75 C (167 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100 % LEL Propane EN	0 - 100% LEL	N/A	1% LEL	< 1.5 Sec	< 3 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-60 C (-76 F)	75 C (167 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100% LEL Hexane EN	0 - 100% LEL	N/A	1% LEL	< 1.5 Sec	< 3 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-60 C (-76 F)	75 C (167 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100 % LEL Ethylene EN	0 - 100% LEL	N/A	1% LEL	< 2 Sec	< 4 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-40 C (-40 F)	60 C (140 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100% LEL Butane EN	0 - 100% LEL	N/A	1% LEL	< 1.5 Sec	< 3 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-60 C (-76 F)	75 C (167 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR400 0-100% LEL Ethane EN	0 - 100% LEL	N/A	1% LEL	< 1.5 Sec	< 3 Sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	N/A	-60 C (-76 F)	75 C (167 F)	IR400	5+ Years	2 Years	Div/Zone 1
IR700 0-2000 ppm Carbon Dioxide	0-2000 ppm	N/A	1% LEL	< 4 Sec	< 9 Sec	+5% FS @ <50% FS; +10% FS @ >50% FS	N/A	-40 C (-40 F)	50 C (122 F)	IR700	5+ Years	2 Years	Div/Zone 1
IR700 0-5000 ppm Carbon Dioxide	0-5000 ppm	N/A	1% LEL	< 4 Sec	< 9 Sec	+5% FS @ <50% FS; +10% FS @ >50% FS	N/A	-40 C (-40 F)	50 C (122 F)	IR700	5+ Years	2 Years	Div/Zone 1
IR700 0-10000 ppm Carbon Dioxide	0-10000 ppm	N/A	1% LEL	< 4 Sec	< 9 Sec	+5% FS @ <50% FS; +10% FS @ >50% FS	N/A	-40 C (-40 F)	50 C (122 F)	IR700	5+ Years	2 Years	Div/Zone 1
IR700 0-30000 ppm Carbon Dioxide	0-30000 ppm	N/A	1% LEL	< 4 Sec	< 9 Sec	+5% FS @ <50% FS; +10% FS @ >50% FS	N/A	-40 C (-40 F)	50 C (122 F)	IR700	5+ Years	2 Years	Div/Zone 1
IR700 0-50000 ppm Carbon Dioxide	0-50000 ppm	N/A	1% LEL	< 4 Sec	< 9 Sec	+5% FS @ <50% FS; +10% FS @ >50% FS	N/A	-40 C (-40 F)	50 C (122 F)	IR700	5+ Years	2 Years	Div/Zone 1

Passive 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				
10058-1	0 - 100% LEL	N/A	1% LEL	< 10 sec	< 30 sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	<5% FS / Year	-40 C (-40 F)	75 C (167 F)	Cat Bead Screened	3-5 Years	2 Years	Div/Zone 1
11159-8	0-20% LEL	N/A	1% LEL	< 10 sec	< 30 sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	<5% FS / Year	-40 C (-40 F)	70 C (158 F)	Cat Bead Sintered	3-5 Years	2 Years	Div/Zone 1
11159-1	0 - 100% LEL	N/A	1% LEL	< 10 sec	< 30 sec	+3% LEL @ <50% LEL; +5% LEL @ >50% LEL	<5% FS / Year	-40 C (-40 F)	70 C (158 F)	Cat Bead Sintered	3-5 Years	2 Years	Div/Zone 1
50448-9	0-20 ppm	N/A	1 ppm	< 14 sec	n/a	+ 2 ppm or 10% of applied gas	N/A	-40 C (-40 F)	75 C (167 F)	MOS Screened	3-5 Years	2 Years	Div/Zone 1
50448-5	0-50 ppm	N/A	1 ppm	< 14 sec	n/a	+ 2 ppm or 10% of applied gas	N/A	-40 C (-40 F)	75 C (167 F)	MOS Screened	3-5 Years	2 Years	Div/Zone 1
50448-1	0-100 ppm	N/A	1 ppm	< 14 sec	n/a	+ 2 ppm or 10% of applied gas	N/A	-40 C (-40 F)	75 C (167 F)	MOS Screened	3-5 Years	2 Years	Div/Zone 1
51457-9	0-20 ppm	N/A	1 ppm	< 30 sec	n/a	+ 2 ppm or 10% of applied gas	N/A	-40 C (-40 F)	70 C (158 F)	MOS Sintered	3-5 Years	2 Years	Div/Zone 1
51457-5	0-50 ppm	N/A	1 ppm	< 30 sec	n/a	+ 2 ppm or 10% of applied gas	N/A	-40 C (-40 F)	70 C (158 F)	MOS Sintered	3-5 Years	2 Years	Div/Zone 1
51457-1	0-100 ppm	N/A	1 ppm	< 30 sec	n/a	+ 2 ppm or 10% of applied gas	N/A	-40 C (-40 F)	70 C (158 F)	MOS Sintered	3-5 Years	2 Years	Div/Zone 1

** At ambient conditions*

S5000 **Gas Monitor**

Specifications

General Monitors by MSA

Product Specifications		
COMBUSTIBLE GAS SENSOR TYPE	Catalytic bead (Passive comb., XCell comb.) Infrared (IR400)	
TOXIC GAS & OXYGEN SENSOR TYPE	**XCell Toxic**	Ammonia (NH_3), Carbon Monoxide (CO), Carbon Monoxide (CO) H_2-resistant, Chlorine (Cl_2), Sulfur Dioxide (SO_2)
	Passive MOS, Echem, XCell Toxic	Hydrogen Sulfide (H_2S)
	XCell O_2	Oxygen (O_2)
	Infrared	Carbon Dioxide (CO_2)
	Electrochem	Ammonia (NH_3), Hydrogen (H_2), Hydrogen Chloride (HCl), Hydrogen Cyanide (HCN), Nitric Oxide (NO), Nitrogen Dioxide (NO_2)
SENSOR MEASURING RANGES	**Combustible**	0-100% LEL (CB, IR)
	Cl_2	0-5, 0-10, 0-20 ppm
	CO	0-100, 0-500, 0-1000 ppm
	CO, H_2-resistant	0-100 ppm
	CO_2	0-2000, 0-5000, 0-10000, 0-30000, 0-50000 ppm
	H_2	0-1000 ppm
	HCl	0-50 ppm
	HCN	0-50 ppm
	H_2S	0-10, 0-20, 0-50, 0-100, 0-500 ppm
	NH_3	0-100 ppm, 0-1000 ppm
	NO	0–100 ppm
	NO_2	0-10 ppm
	O_2	0-25%
	SO_2	0-25, 0–100 ppm
APPROVALS CLASSIFICATION	*See manual for complete CSA listings.*	
DIVISIONS (US/CAN)	Class I, Div/Zone 1&2, Groups A, B, C & D T5/T4; Class II, Div/Zone 1&2, Groups E, F & G, T6; Class III Type 4X, IP66	
US ZONES	Class I, Zone 1 AEx db IIC T5 Gb Class I, Zone 2 AEx nA nC IIC T4 Gc Zone 21 AEx tb IIIC T85°C Db	
CANADIAN ZONES/ ATEX/ IECEx	Ex db IIC T5 Gb Ex nA nC IIC T4 Gc Ex tb IIIC T85°C Db	
CE MARKING DIRECTIVES	Complies with EMC, RED, ATEX	
WARRANTY	**S5000 transmitter**	2 years
	XCell Sensors	3 years
	Passive comb., MOS, IR400, IR700	2 years
	Echem Sensors	Varies by gas
APPROVALS	CSA, FM**, ATEX, IECEx,INMETRO, ABS, DNV-GL Marine, CE Marking. Complies with C22.2 No. 152, FM 6320, ANSI/ISA/CSA/IEC/EN 60079-29-1, ANSI/ISA 12.13.01. Suitable for SIL 2.	

Dimensions	
HOUSING (W x H x D)	6.37″ x 5.38″ x 4.25″ (162 x 137 x 108 mm)
W/PASSIVE SENSOR	6.37″ x 7.62″ x 4.25″ (162 x 193 x 108 mm)
W/DIGITAL SENSOR	6.37″ x 10.4″ x 4.25″ (162 x 265 x 108 mm)
W/IR400 IR SENSOR	14.8″ x 6.0″ x 4.25″ (375 x 152 x 108 mm)
WEIGHT	8 lb. (3.6 kg), 316 SS

Environmental Specifications		
OPERATING TEMPERATURE RANGE	**Transmitter**	-55°C to +75°C
	CB (sintered, Zones)	-40°C to +70°C
	CB (screened, Div)	-40°C to +75°C
	MOS (sintered, Zones)	-40°C to +70°C
	MOS (screened, Div)	-40°C to +75°C
	IR (CSA)	-40°C to +75°C
	IR (ATEX/IECEx)	-60°C to +75°C
	XCell (Comb)	-55°C to +60°C
	XCell (Toxic/O_2)	-40°C to +60°C
STORAGE TEMPERATURE RANGE	**Housing, IR400, IR700, passive sensors**	-50°C to +85°C
	XCell sensors	-40°C to +60°C
RELATIVE HUMIDITY (NON-CONDENSING)	**XCell sensors, IR400, IR700**	10-95%
	Passive combustible	0-95%
	Passive H_2S	15-95%

Mechanical Specifications			
INPUT POWER	24 VDC nominal, 12 to 30 VDC		
SIGNAL OUTPUT	Dual 4-20 mA current source or sink, HART, Modbus, Bluetooth. *Optional: w/o Bluetooth*		
RELAY RATINGS	5A @ 30VDC; 5A @220 VAC (3X) SPDT – fault, warn, alarm		
RELAY MODES	Common, discrete, horn		
NORMAL MAX POWER		**Without Relays**	**With Relays**
	Passive comb.	5.0 W	6.0 W
	Passive MOS	9.8 W	10.8 W
	IR400/IR700	7.9 W	8.9 W
	XCell comb.	5.0 W	6.0 W
	XCell toxic & O_2	2.6 W	3.6 W
	IR400/IR700 + XCell comb.	10.8 W	11.8 W
	IR400/IR700 + XCell toxic or O_2	8.6 W	9.6 W
	Dual XCell toxic or O_2	3.3 W	4.3 W
	Dual XCell comb.	7.4 W	8.4 W
	XCell comb. + XCell toxic or O_2	5.7 W	6.7 W
STATUS INDICATORS	4-digit scrolling LED, icons depicting fault, warn, alarm, Bluetooth, 1 and 2 to indicate sensor reading displayed		
RS-485 OUTPUT	Modbus RTU, suitable for linking up to 128 units or up to 247 units with repeaters		
BAUD RATE	2400, 4800, 9600, 19200, 38400, 115200		
HART	HART 7, Device Description (DD) and Device Type Manager (DTM) available		
FAULTS MONITORED	Low supply voltage, RAM checksum error, flash checksum error, EEPROM error, internal circuit error, relay, invalid sensor configuration, sensor faults, calibration faults, analog output mismatch fault		
CABLE REQUIREMENTS	3-wire shielded cable for single sensor and 4-wire shielded cable for dual sensor configurations. Accommodates up to 12 AWG or 4 mm2 *Refer to manual for mounting distances.*		

*** See manual for FM-approved sensors*

Specifications subject to change without notice.

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit ***MSAsafety.com/offices***.