

S5000 Gas Monitor

Extreme Durability. Anytime. Anywhere.



General Monitors

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

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

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

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

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

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



X/S Connect App

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



Advanced Sensor Technology

POWERED BY

XCell
SENSORS

WITH

TruCal
TECHNOLOGY

- Patented XCell H₂S 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.

Applications

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



SafeSwap[®]

MSA
The Safety Company

WE KNOW WHAT'S AT STAKE.

S5000 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	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 - H ₂ Resistant	0 - 100 ppm	10 - 100 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
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%	<2% 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	-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 (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%	<2% 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	< 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)	50°C (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



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

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

Product Specifications	
COMBUSTIBLE GAS SENSOR TYPE	Catalytic bead (Passive comb., XCell comb.) Infrared (IR400)
TOXIC GAS & OXYGEN SENSOR TYPE	<p>XCell Toxic Ammonia (NH₃), Carbon Monoxide (CO), Carbon Monoxide (CO) H₂-resistant, Chlorine (Cl₂), Sulfur Dioxide (SO₂), Chlorine Dioxide (ClO₂)</p> <p>Passive MOS, Echem,</p> <p>XCell Toxic Hydrogen Sulfide (H₂S)</p> <p>XCell O₂ Oxygen (O₂)</p> <p>Electrochem Ammonia (NH₃), Ethylene Oxide (ETO), Hydrogen (H₂), Hydrogen Chloride (HCl), Hydrogen Cyanide (HCN), Hydrogen Fluoride (HF), Nitric Oxide (NO), Nitrogen Dioxide (NO₂)</p>
SENSOR MEASURING RANGES	<p>Combustible 0-100% LEL (CB, IR)</p> <p>Cl₂ 0-5, 0-10, 0-20 ppm</p> <p>ClO₂ 0-3 ppm</p> <p>CO 0-100, 0-500, 0-1000 ppm</p> <p>CO, H₂-resistant 0-100 ppm</p> <p>ETO 0-10 ppm</p> <p>H₂ 0-1000 ppm</p> <p>HCl 0-50 ppm</p> <p>HCN 0-50 ppm</p> <p>HF 0-10 ppm</p> <p>H₂S 0-10, 0-20, 0-50, 0-100, 0-500 ppm</p> <p>NH₃ 0-100 ppm, 0-1000 ppm</p> <p>NO 0-100 ppm</p> <p>NO₂ 0-10 ppm</p> <p>O₂ 0-25%</p> <p>SO₂ 0-25, 0-100 ppm</p>
CLASSIFICATIONS DIVISIONS (US/CAN)	See manual for complete CSA listings. 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
US ZONES	Type 4X, IP66 Class I, Zone 1 AEx db IIC T5 Gb Class I, Zone 2 AEx nA nC IIC T4 Gc
CANADIAN ZONES/ ATEX/ IECEx	Zone 21 AEx tb IIIC T85°C Db Ex db IIC T5 Gb Ex nA nC IIC T4 Gc Ex tb IIIC T85°C Db
WARRANTY	<p>S5000 transmitter 2 years</p> <p>XCell Sensors 3 years</p> <p>Passive comb., MOS, IR400 2 years</p> <p>Echem Sensors Varies by gas</p>
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.

** See manual for FM-approved sensors

Specifications subject to change without notice.

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	<p>Transmitter -55°C to +75°C</p> <p>CB (sintered, Zones) -40°C to +70°C</p> <p>CB (screened, Div) -40°C to +75°C</p> <p>MOS (sintered, Zones) -40°C to +70°C</p> <p>MOS (screened, Div) -40°C to +75°C</p> <p>IR (CSA) -40°C to +75°C</p> <p>IR (ATEX/IECEx) -60°C to +75°C</p> <p>XCell (Comb) -55°C to +60°C</p> <p>XCell (Toxic/O₂) -40°C to +60°C</p>																																	
STORAGE TEMPERATURE RANGE	<p>Housing, IR400, passive sensors -50°C to +85°C</p> <p>XCell sensors -40°C to +60°C</p>																																	
RELATIVE HUMIDITY (NON-CONDENSING)	<p>XCell sensors, IR400, 10-95%</p> <p>Passive combustible 0-95%</p> <p>Passive H₂S 15-95%</p>																																	
Mechanical Specifications																																		
INPUT POWER	24 VDC nominal, 12 to 30 VDC																																	
SIGNAL OUTPUT	Dual 4-20 mA current source or sink, HART, Modbus, Bluetooth. <i>Optional: w/o Bluetooth</i>																																	
RELAY RATINGS	5A @ 30VDC; 5A @220 VAC (3X) SPDT – fault, warn, alarm																																	
RELAY MODES	Common, discrete, horn																																	
NORMAL MAX POWER	<table border="1"> <thead> <tr> <th></th> <th>Without Relays</th> <th>With Relays</th> </tr> </thead> <tbody> <tr> <td>Passive comb.</td> <td>5.0 W</td> <td>6.0 W</td> </tr> <tr> <td>Passive MOS</td> <td>9.8 W</td> <td>10.8 W</td> </tr> <tr> <td>IR400</td> <td>7.9 W</td> <td>8.9 W</td> </tr> <tr> <td>XCell comb.</td> <td>5.0 W</td> <td>6.0 W</td> </tr> <tr> <td>XCell toxic & O₂</td> <td>2.6 W</td> <td>3.6 W</td> </tr> <tr> <td>IR400 + XCell comb.</td> <td>10.8 W</td> <td>11.8 W</td> </tr> <tr> <td>IR400 + XCell toxic or O₂</td> <td>8.6 W</td> <td>9.6 W</td> </tr> <tr> <td>Dual XCell toxic or O₂</td> <td>3.3 W</td> <td>4.3 W</td> </tr> <tr> <td>Dual XCell comb.</td> <td>7.4 W</td> <td>8.4 W</td> </tr> <tr> <td>XCell comb. + XCell toxic or O₂</td> <td>5.7 W</td> <td>6.7 W</td> </tr> </tbody> </table>		Without Relays	With Relays	Passive comb.	5.0 W	6.0 W	Passive MOS	9.8 W	10.8 W	IR400	7.9 W	8.9 W	XCell comb.	5.0 W	6.0 W	XCell toxic & O₂	2.6 W	3.6 W	IR400 + XCell comb.	10.8 W	11.8 W	IR400 + XCell toxic or O₂	8.6 W	9.6 W	Dual XCell toxic or O₂	3.3 W	4.3 W	Dual XCell comb.	7.4 W	8.4 W	XCell comb. + XCell toxic or O₂	5.7 W	6.7 W
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XCell comb. + XCell toxic or O₂	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 mm ² <i>Refer to manual for mounting distances.</i>																																	