

General Monitors

S5000 Gas Monitor





WE KNOW WHAT'S AT STAKE.

A DETECTOR AS TOUGH AS YOU ARE...





"LOWER TEMPERATURE SPEC?...
ARCTIC WINTERS"

"IT HAS TO BE THE MOST RELIABLE PIECE OF EQUIPMENT OUT HERE"

"IF THE DETECTOR DOESN'T WORK, WE DON'T, SO IT NEEDS TO WORK"

"I DON'T HAVE TIME TO BABYSIT A GAS DETECTOR"





IS THE ONLY DETECTOR YOU'LL NEED

"I WANT TO INSTALL IT AND FORGET ABOUT IT"





STAY CONNECTED. **WORK SMARTER.**

- Bluetooth wireless technology
- Check status and get alerts up to 70 ft (21 m) away
- Modify settings/setpoints/alarms
- Initiate calibration and view progress
- Reduce setup time by at least 50%





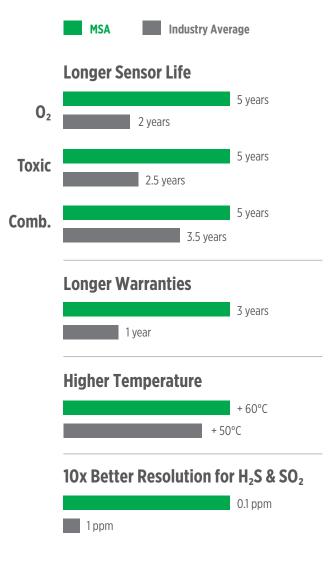




ADVANCING SENSOR TECHNOLOGY

Up to **2 YEARS** between calibrations!





^{*} Data may vary for different gases and configurations



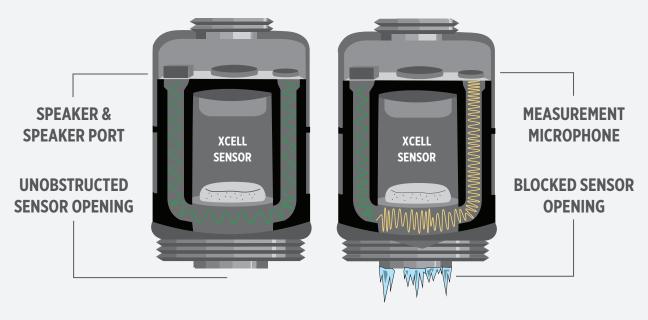
RE-CALIBRATE YOUR EXPECTATIONS



Adaptive Environmental Compensation (AEC)



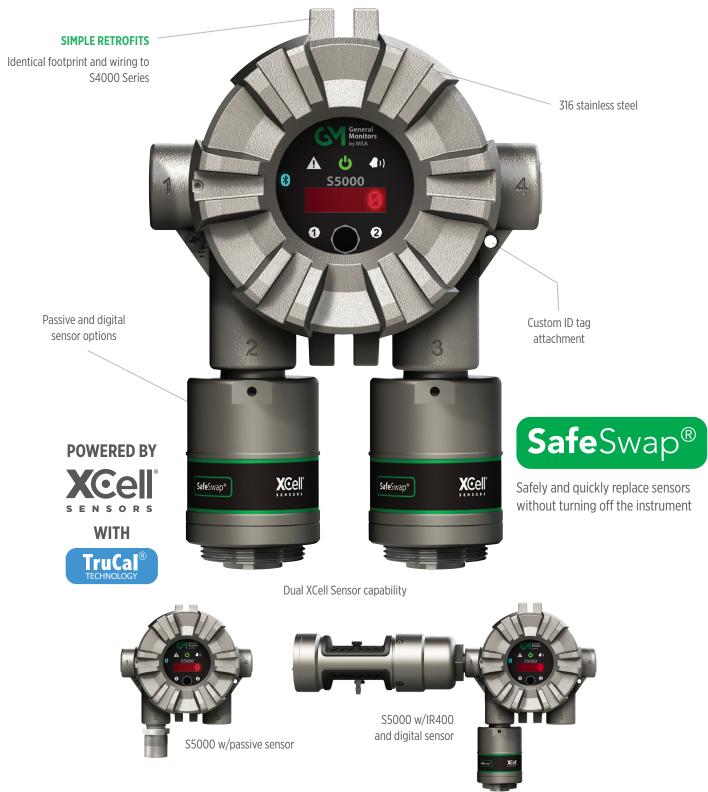
Diffusion Supervision (DS)



Diffusion Supervision warns if the sensor inlet becomes blocked and unable to detect gas. It employs a proprietary acoustic mechanical design and algorithms to measure sound across the sensor's inlet. If the inlet is blocked with a material, like ice, the difference in the sound is detected and the unit is put into fault. When the obstruction is removed, Diffusion Supervision detects the clearance and returns to normal operation. H_2S and CO Sensors configured with Diffusion Supervision technology allow extended calibration cycles of 24 months reducing maintenance costs and allowing resources to be utilized elsewhere!

STANDS OUT BUT STILL FITS IN

It just works. All day. Every day.





IT MAKES SENSE... NO EXCEPTIONS







EXPECTED LIFE

WARRANTY

PATENTS

We're going to help you save*

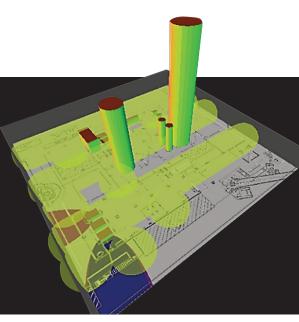
Installation	30 %	~\$7,000
Annual maintenance	50 %	~\$1,500
Over the life of the product	75 %	~\$15k

Questions about sensor placement?

MSA's fire and gas mapping service combines 160 years of gas detection experience with 3D technology to help you maximize the effectiveness of every sensor.

Check out the link or scan for more information: MSAsafety.com/gas-mapping





S5000 Gas Monitor

Specifications



Product Specifications	•			
		Secretary West Company		
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 -resist., Chlorine (Cl ₂), Chlorine Dioxide (ClO ₂), Sulfur Dioxide (SO ₂)		
	XCell Toxic, Echem, Passive MOS XCell O ₂	Hydrogen Sulfide (H₂S) Oxygen (O₂)		
	Echem	Ammonia (NH ₃), Ethylene Oxide (ETO), Hydrogen (H ₂), Hydrogen Chloride (HCl), Hydrogen Cyanide (HCN), Hydrogen Fluoride (HF), Nitrogen Oxide (NO), Nitrogen Dioxide (NO ₂), Sulfur Dioxide (SO ₂)		
SENSOR	Combustible	0-100% LEL (CB, IR)		
MEASURING RANGES	Cl ₂	0-5, 0-10, 0-20 ppm		
	CIO ₂	0-3 ppm		
	CO, H ₂ -resistant	0-100, 0-500, 0-1000 ppm 0-100 ppm		
	ETO	0-100 ppm		
	H ₂	0-1000 ppm		
	HCI	0-50 ppm		
	HCN	0-50 ppm		
	H₂S	0-10, 0-20, 0-50, 0-100,		
	l <u>.</u>	0-500 ppm		
	HF	0-10 ppm		
	NH ₃ NO	0-100 ppm, 0-1000 ppm		
	NO ₂	0-100 ppm 0-10 ppm		
	02	0-25%		
	SO ₂	0-25, 0-100 ppm		
CLASSIFICATIONS	See manual for com	nlete CSA listinas		
DIVISIONS (US/CAN)	Class I, Div 1&2, Groups A, B, C & D T5/T4; Class II, Div 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			
WARRANTY	S5000 transmitter2 yearsXCell Sensors3 yearsPassive comb., MOS, IR4002 yearsEchem sensorsVaries by gas			
APPROVALS	CSA, FM*, ATEX, IECEx, INMETRO, ABS, DNV-GL Marine, CE Marking. Suitable for SIL 2			
Dimensions				
HOUSING (W x H X D)	6.37" x 5.38" x 4.25" (162 x 137 mm x 108 mm)			
W/PASSIVE SENSOR	6.37" x 7.62" x 4.25 (162 x 193 mm x 108 mm)			
W/DIGITAL SENSOR	6.37" x 10.4" x 4.25" (162 x 265 mm x 108 mm)			
WEIGHT	8.0 lb. (3.6 kg), 316 s	· · · · · · · · · · · · · · · · · · ·		
WEIGHT				

Ziirii oiiii eiitai opeeii	ications			
OPERATING	Transmitter	-55°C	c to +75°C	
TEMPERATURE RANGE**	CB (sintered, Zones)	-40°C	to +70°C	
	CB (screened, Div)	-40°C	c to +75°C	
	MOS (sintered, Zones)	-40°C	to +70°C	
	MOS (screened, Div)	-40°C	c to +75°C	
	IR (CSA)	-40°C	c to +75°C	
	IR (ATEX/IECEx)	-60°C	c to +75°C	
	XCell (Comb)	-55°C	to +60°C	
	XCell (Toxic/O ₂)	-40°C	to +60°C	
STORAGE	Housing, IR400,			
TEMPERATURE RANGE	passive sensors		to +85°C	
	XCell sensors	-40°C	to +60°C	
OPERATING HUMIDITY RANGE	XCell sensors, IR400		10-95%	
	Passive comb.		10-90%	
	Passive H₂S		0-95%	
Mechanical Specificat	ions			
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	5 A @ 30 VDC; 5 A @ 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	7.9 W	8.9 W	
	XCell comb. XCell toxic & O ₂	5.0 W 2.6 W	6.0 W 3.6 W	
	IR400 + XCell comb.	10.8 W	11.8 W	
	IR400 + 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, HART device description language 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.			

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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^{**} See data sheet for complete list.