

### ULTIMA® X5000 Gas Monitor



safeguarding PEOPLE, PLACES & 뛷PLANET

### WE KNOW YOU'RE TIRED OF ...





"NEEDING TO DISCONNECT POWER BEFORE CHANGING A SENSOR"

> "REMEMBERING HOW TO CALIBRATE THIS THING"

*"HAVING TO PULL SO MUCH WIRE AT EVERY GAS DETECTOR INSTALLATION..."* 

*"WONDERING IF THE GAS DETECTOR IS WORKING"* 

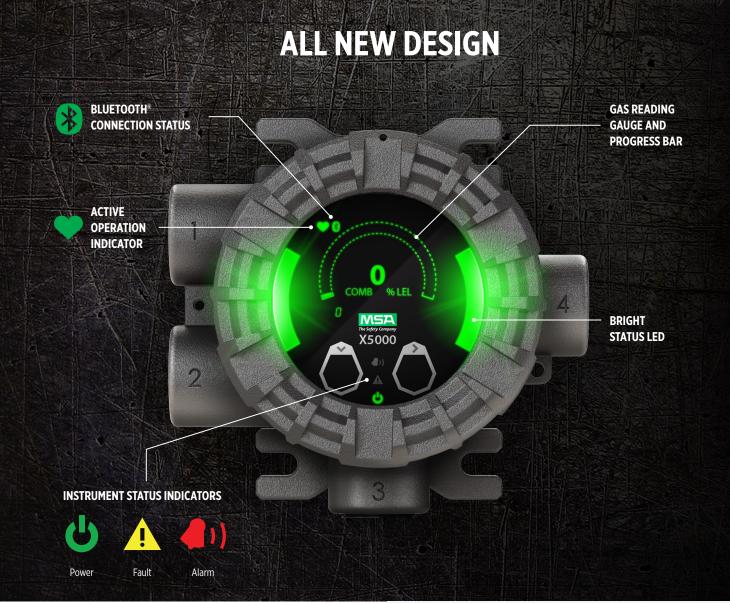




YOU HAVEN'T BEEN ABLE TO DO ANYTHING ABOUT IT... UNTIL NOW.

*"LOSING MY MAGNET... I HAVE BIGGER THINGS TO WORRY ABOUT"* 





### **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%





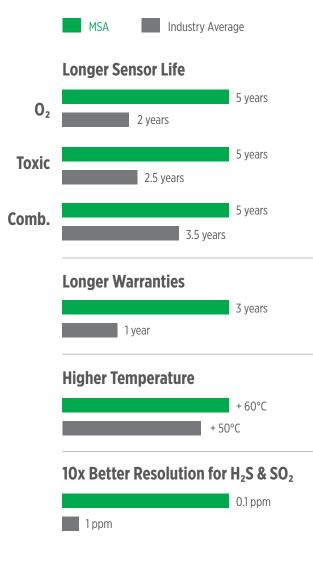




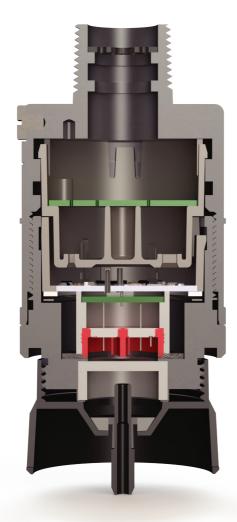
# **ADVANCING SENSOR TECHNOLOGY**

### Up to 2 YEARS between calibrations





\* Data may vary for different gases and configurations





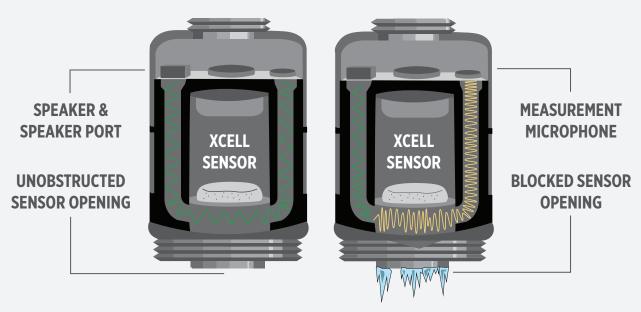
# **RE-CALIBRATE YOUR EXPECTATIONS**



### **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.

#### ULTIMA® X5000 Gas Monitor

# **DO MORE WITH LESS**





## **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

Request a Cost of Ownership comparison.

#### **Questions about sensor placement?**

MSA's gas and flame 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



\* Based on 10 sensors and 2 sensors/transmitter

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



Product Specifications			Environmental Specifications**		
COMBUSTIBLE GAS SENSOR TYPE	OR TYPE Infrared (XIR Plus)		OPERATING TEMPERATURE RANGE	** May differ by gas type, see data sheet XCell -40°C to +60°C XIR PLUS -40°C to +60°C	
TOXIC GAS & OXYGEN SENSOR TYPE	XIR PLUS XCell Toxic	Carbon Dioxide (CO <sub>2</sub> ) Ammonia (NH <sub>3</sub> ), Carbon Monoxide (CO), Carbon Monoxide (CO) H <sub>2</sub> -resistant,	RELATIVE HUMIDITY (NON-CONDENSING)	XCell toxics & O2 10-95%   XCell combustible 0-95%   XIR PLUS 15-95%	
	XCell O <sub>2</sub> Electrochem.	Hydrogen Sulfide ( $H_2S$ ), Chlorine ( $Cl_2$ ), Chlorine Dioxide ( $ClO_2$ ), Sulfur Dioxide ( $SO_2$ )		Mechanical Specifications	
			INPUT POWER	11 to 30 VDC, 3 wire, <5 W nominal	
			SIGNAL OUTPUT	Dual 4-20 mA current source, HART	
			BLUETOOTH	Bluetooth Low Energy (BLE) v4.3 or higher	
			(OPTIONAL) RELAY RATINGS	5 A @ 30 VDC; 5 A @ 220 VAC	
			RELAT KATINGS	(3X) SPDT - fault, warn, alarm	
			RELAY MODES	Common, discrete, horn	
			NORMAL MAX POWER	Without With Relays Relays XIR PLUS 5.7 W 6.7 W XCell combustible 3.9 W 4.9 W	
SENSOR MEASURING RANGES	MEASURING RANGES CO2 0-2%, 0-5% Vol   CO 0-100, 0-500, 0-1000 ppm   CO, H2-resistant 0-100 ppm   CI2 0-5, 0-10, 0-20 ppm   CI02 0-3 ppm   ETO 0-10 ppm   H2 0-100 ppm   H2 0-1000 ppm   HCI 0-50 ppm   HCN 0-50 ppm   HF 0-100 ppm   H2 0-100, 0-500 oppm   H5 0-100, 0-1000 oppm   NH3 0-100, 0-1000 ppm   ND 0-100 ppm   NO 0-100 ppm   NO 0-100 ppm	0-2%, 0-5% Vol 0-100, 0-500, 0-1000 ppm 0-100 ppm 0-5, 0-10, 0-20 ppm 0-3 ppm		XCell Toxic & O2 1.8 W 2.8 W   XIR PLUS & XCell combustible 9.9 W 10.9 W   XIR PLUS & XCell toxic or O2 6.0 W 7.0 W   Dual XIR PLUS 10.6 W 11.6 W   Dual XCell toxic & O2 2.6 W 3.6 W   Dual XCell combustible 9.6 W 10.6 W	
			Dual XCell comb. & XCell toxic or O <sub>2</sub> 4.3 W 5.3 W		
		0-50 ppm	EMC DIRECTIVE DISPLAY	Complies with EN 50270, EN 61000-6-4, EN 61000-6-3 Organic LED (multi-lingual) with contrast ratio of 2000:1 and view angle of 160°	
		0-100, 0-1000 ppm 0-100 ppm 0-10 ppm 0-25%	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, general system	
TYPICAL SENSOR LIFE	XCell Sensors Infrared	5 years 10 years	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	
APPROVALS CLASSIFICATION				Refer to manual for mounting distances.	
DIVISIONS (US/CAN)	CAN) Class I, II, III; Div 1 & 2, T4/T5/T6 BAL) Ex db nA IIC T5 Gb (Class I, Zone 1/Zone2) Ex tb IIIC T85°C Db (Class II, Zone 21) TING Type 4X, IP66			Dimensions	
ZONES (GLOBAL)					
ENCLOSURE RATING					
WARRANTY					
APPROVALS	CE Marking. SIL 2 s	CEx, INMETRO, DNV-GL Marine, uitable. .2 No. 152, FM 6320	* See manual for FM appro	ved sensors.	

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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