

## ULTIMA® X5000 Gas Monitor



WE KNOW WHAT'S AT STAKE.

## 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"* 



### **ALL NEW DESIGN**





#### **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!

#### **DO MORE WITH LESS** 2" (50.8 mm) integral pipe mount bracket **SIMPLE RETROFITS** Identical footprint and wiring





MSAsafety.com/detection



## **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



COMBUSTIBLE GAS SENSOR TYPE	Catalytic Bead (XCell combustible) Infrared (XIR Plus)		
TOXIC GAS & OXYGEN SENSOR TYPE	XIR PLUS XCell Toxic XCell O <sub>2</sub> Electrochem.	Carbon Dioxide (CO <sub>2</sub> ) 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 (CIO <sub>2</sub> ), Sulfur Dioxide (CIO <sub>2</sub> ), Sulfur Dioxide (CO <sub>2</sub> ), Sulfur Dioxide (CO <sub>2</sub> ) Ammonia (NH <sub>3</sub> ), Ethylene Oxide (ETO) Hydrogen (H <sub>2</sub> ), Hydrogen Chloride (HCI), Hydrogen Fluoride (HF) Nitric Oxide (NO), Nitrogen Dioxide (NO <sub>2</sub> ), Sulfur Dioxide (NO <sub>2</sub> ), Sulfur Dioxide (NO <sub>2</sub> ),	
SENSOR MEASURING RANGES	Combustible CO <sub>2</sub> CO CO, H <sub>2</sub> -resistant CI <sub>2</sub> CIO <sub>2</sub> ETO H <sub>2</sub> HCI HCN HF H <sub>2</sub> S NH <sub>3</sub> NO NO <sub>2</sub> O <sub>2</sub> SO <sub>2</sub>	0-100% LEL 0-2%, 0-5% Vol 0-100, 0-500, 0-1000 ppm 0-100 ppm 0-5, 0-10, 0-20 ppm	
TYPICAL SENSOR LIFE	XCell Sensors Infrared	5 years 10 years	
APPROVALS CLASSIFICATION DIVISIONS (US/CAN) ZONES (GLOBAL) ENCLOSURE RATING	Markings vary by component. See manual for specific component markings. Class I, II, III; Div 1 & 2, T4/T5/T6 Ex db nA IIC T5 Gb (Class I, Zone 1/Zone2) Ex tb IIIC T85°C Db (Class II, Zone 21) Type 4X. IP66		
WARRANTY	X5000 trans XIF XCell So Electrochemical So	<b>PLUS</b> 10 years source,   5 years electronics <b>ensors</b> 3 years	
APPROVALS	CSA, FM*, ATEX, IECEx, INMETRO, DNV-GL Marine, CE Marking. SIL 2 suitable. Complies with C22.2 No. 152, FM 6320		
	Environmental Spe	cifications**	
OPERATING TEMPERATURE RANGE	** May differ by gas type, see data sheet XCell -40°C to +60°C XIR PLUS -40°C to +60°C		
RELATIVE HUMIDITY (NON-CONDENSING)	XCell toxics & ( XCell combustib XIR PLL	le 0-95%	

**Product Specifications** 

	Mechanical Specifications				
INPUT POWER	11 to 30 VDC, 3 wire, <5 W nominal				
SIGNAL OUTPUT	Dual 4-20 mA current source, HART				
BLUETOOTH (OPTIONAL)	Bluetooth Low Energy (BLE) v4.3 or higher				
RELAY RATINGS	5 A @ 30 VDC; 5 A @ 220 VAC (3X) SPDT - fault, warn, alarm				
RELAY MODES	Common, discrete, horn				
NORMAL MAX POWER	XIR PLUS XCell combustible	<i>Without</i> <i>Relays</i> 5.7 W 3.9 W	<b>Relays</b> 6.7 W 4.9 W		
	XCell Toxic & O <sub>2</sub> XIR PLUS & XCell combustible XIR PLUS & XCell toxic or O <sub>2</sub> Dual XIR PLUS Dual XCell toxic & O <sub>2</sub> Dual XCell combustible Dual XCell comb. & XCell toxic or O <sub>2</sub>	1.8 W 9.9 W 6.0 W 10.6 W 2.6 W 9.6 W 4.3 W	2.8 W 10.9 W 7.0 W 11.6 W 3.6 W 10.6 W 5.3 W		
EMC DIRECTIVE	Complies with EN 50270, EN 61000-6-4, EN 61000-6-3				
DISPLAY	Organic LED (multi-lingual) with contrast ratio of 2000:1 and view angle of 160°				
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				
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 <i>Refer to manual for mounting distances.</i>				
Dimensions					
5.8 [44.4] (5.8] (5.8] (5.8] (14.4] (5.8] (14.4] (5.8] (14.4] (5.8] (14.4] (5.8] (14.4] (5.8] (14.4] (5.8) (14.4)					



\* See manual for FM approved 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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