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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

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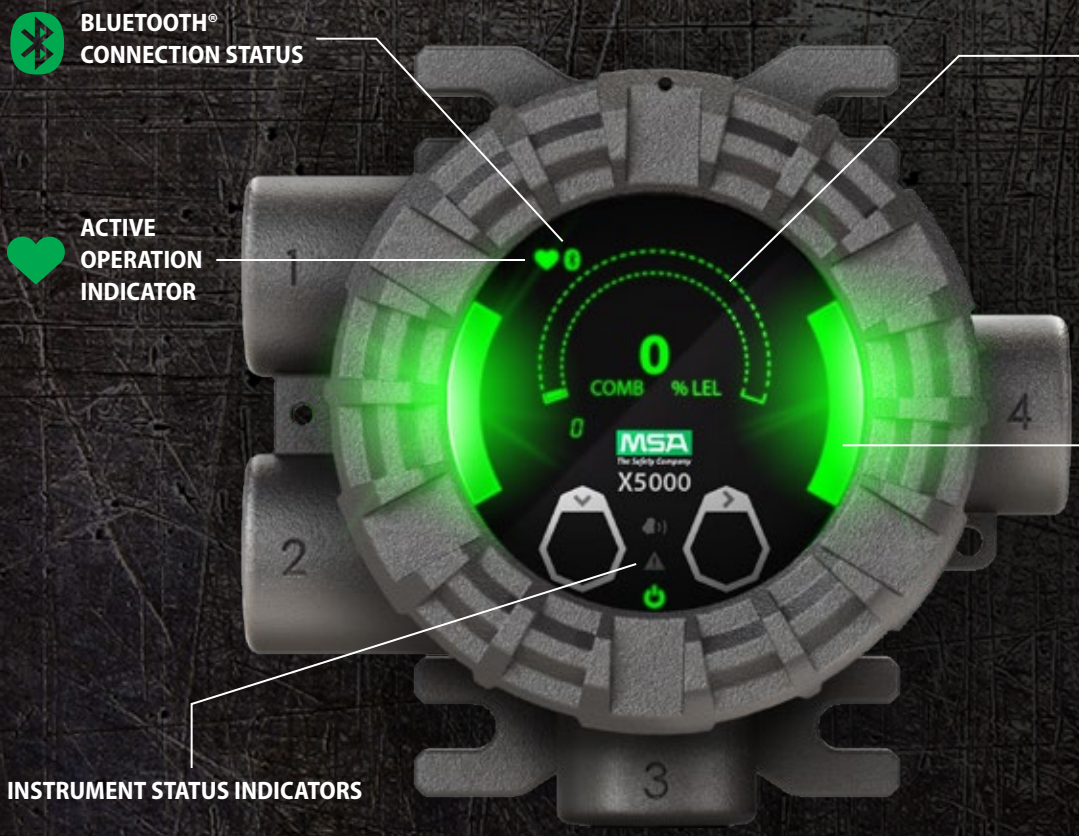


STAY CONNECTED. WORK SMARTER.

- Bluetooth wireless technology
- Check status and get alerts up to 75 ft. (23 m) away
- Modify settings/setpoints/alarms
- Initiate calibration and view progress
- Reduce setup time by at least 50%

GET IT ON Google Play

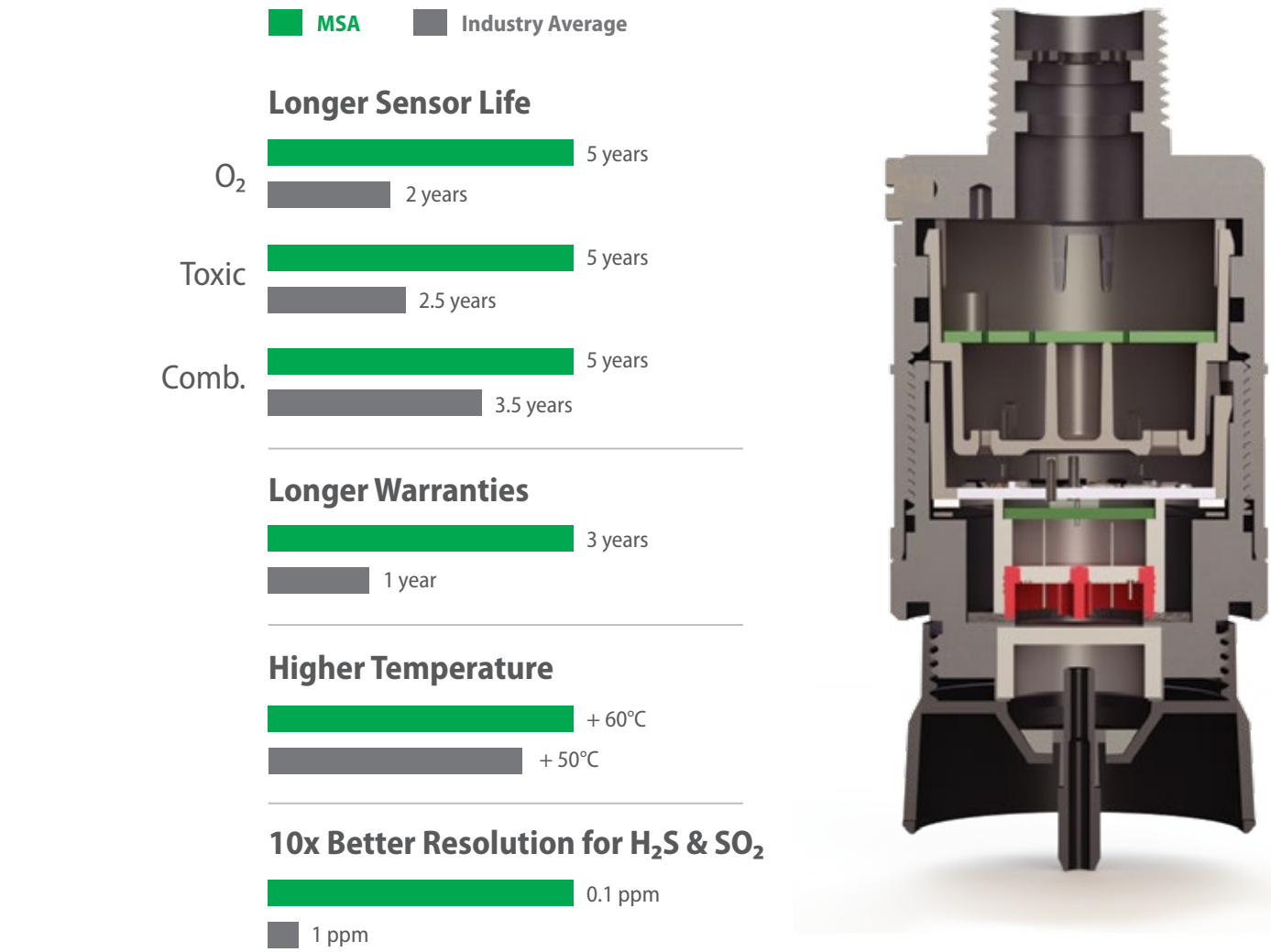
Download on the App Store

X/S Connect App

ADVANCING SENSOR TECHNOLOGY

Up to **1.5 YEARS** between calibrations!

XCell® SENSORS



** Data may vary for different gases and configurations*

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RE-CALIBRATE YOUR EXPECTATIONS

TruCal® TECHNOLOGY

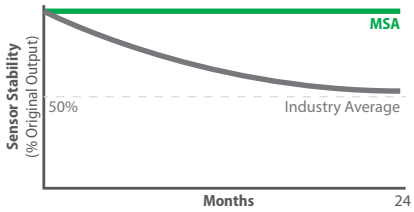
Adaptive Environmental Compensation (AEC)

Longer Sensor Life

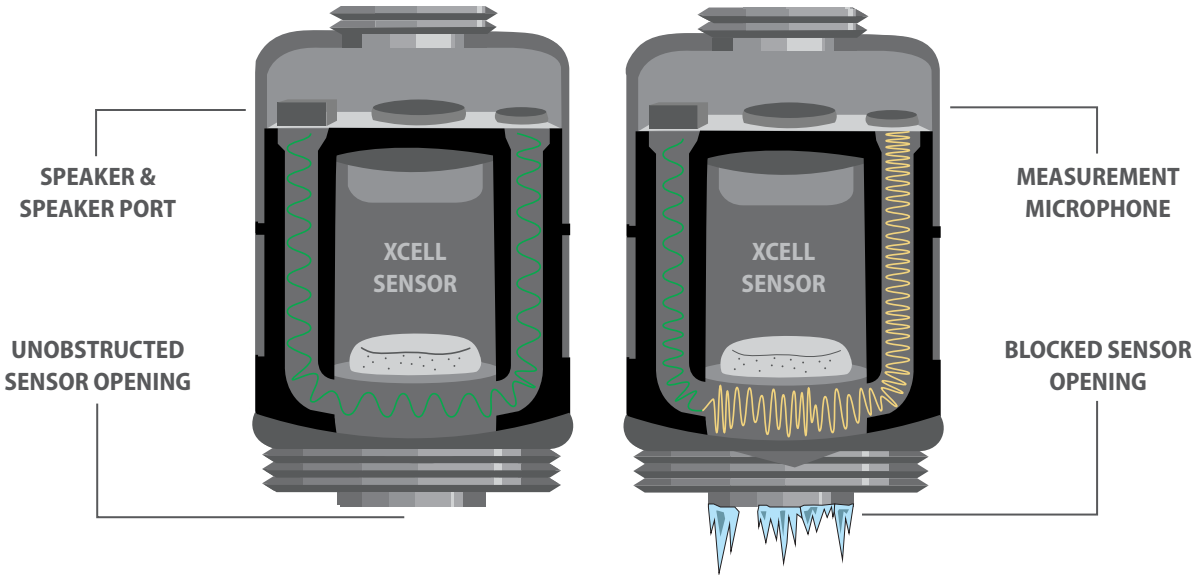
Automatically self-checks 4x/day

Longer Calibration Cycles

Better Stability (Lower Drift)



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.

**TruCal available on CO & H_2S SCell Sensors*

DO MORE WITH LESS

2" (50.8 mm) integral pipe mount bracket

3/4" (19 mm) NPT or M25 threads

Dual sensors and analog outputs

Touch interface for tool-free operation

Combustible, toxic, or oxygen digital sensors

SIMPLE RETROFITS

Identical footprint and wiring as ULTIMA X Series

Dual sensing capability for any combination of sensors

Tag attachment

Multilingual text menu options

POWERED BY XCell SENSORS WITH TruCal® TECHNOLOGY

SafeSwap®

Safety and quickly replace sensors without turning off the instrument

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IT MAKES SENSE... NO EXCEPTIONS

5 years

EXPECTED LIFE

3 years

WARRANTY

12+

PATENTS

We're going to help you save*

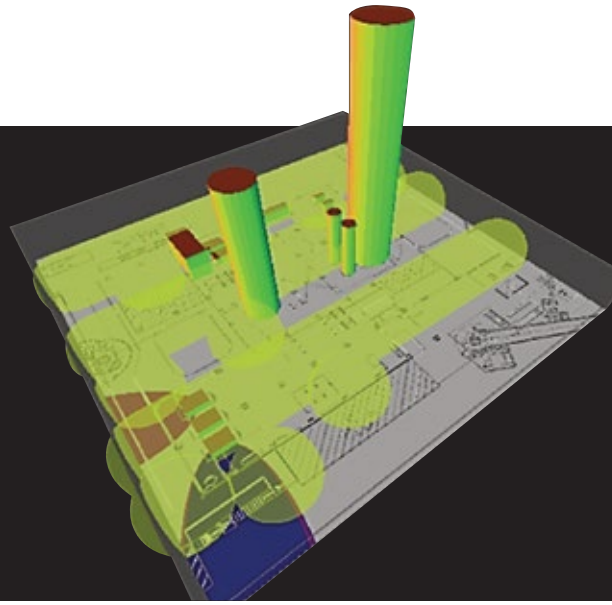
Installation	30%	~$7,000
Annual maintenance	50%	~$1,500
Over the life of the product	75%	~$15k

Request a Cost of Ownership comparison.

Questions about sensor placement?

MSA's new gas and flame mapping service combines 150 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 X5000 **Gas Monitor**

Specifications

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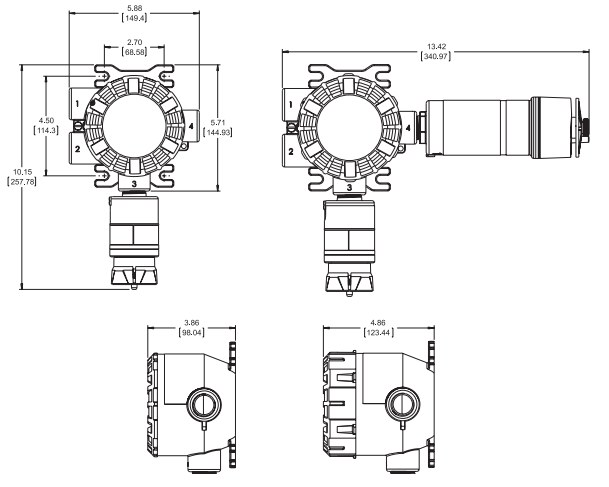
Product Specifications		
COMBUSTIBLE GAS SENSOR TYPE	Catalytic Bead (XCell combustible) Infrared (XIR Plus)	
TOXIC GAS & OXYGEN SENSOR TYPE	**XIR PLUS** **XCell Toxic** **XCell O_2** **XCell SO_2** **Electrochem.**	Carbon Dioxide (CO_2) Carbon Monoxide (CO) Carbon Monoxide (CO) H_2-resistant Hydrogen Sulfide (H_2S) Chlorine (Cl_2) Oxygen (O_2) Sulfur Dioxide (SO_2) Hydrogen (H_2) Nitrogen Dioxide (NO_2)
SENSOR MEASURING RANGES	**Combustible** **CO_2** **CO** **CO, H_2-resistant** **Cl_2** **H_2** **H_2S** **NO_2** **O_2** **SO_2**	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 0-1000 ppm 0-10, 0-50, 0-100, 0-500 ppm 0-10 ppm 0-25% 0-25 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 transmitter** **XIR PLUS** **XCell Sensors** **Electrochemical Sensors**	2 years 10 years source, 5 years electronics 3 years Varies by gas
APPROVALS	CSA, ATEX, IECEx, INMETRO, DNV-GL Marine, CE Marking. Complies with C22.2 No. 152, FM 6320 RED, FCC, Suitable for SIL 2	
Environmental Specifications*		
OPERATING TEMPERATURE RANGE	** May differ by gas type, see manual* **XCell** **XIR PLUS**	-40°C to +60°C -40°C to +60°C
STORAGE TEMPERATURE RANGE	-40°C to +60°C	
RELATIVE HUMIDITY (NON-CONDENSING)	**XCell toxics & O_2** **XCell combustible** **XIR PLUS**	10-95% 0-95% 15-95%

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 RELAYS	**XIR PLUS** **XCell combustible** **XCell Toxic & O_2** **XIR PLUS & XCell combustible** **XIR PLUS & XCell toxic or O_2** **Dual XIR PLUS** **Dual XCell toxic & O_2** **Dual XCell combustible** **Dual XCell comb. & XCell toxic or O_2**	6.7 W 4.9 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 angel 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	
WIRING REQUIREMENTS	3-wire (single sensor) or 4-wire (dual sensor) shielded cable. *Refer to manual for mounting distances and wire gauge.*	

Dimensions



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

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