MSA
The Safety Company

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

BLUETOOTH®
CONNECTION STATUS

ACTIVE
OPERATION
INDICATOR

GAS READING
GAUGE AND
PROGRESS BAR

BRIGHT
STATUS LED

INSTRUMENT STATUS INDICATORS

Power Fault Alarm

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%

GET IT ON Google Play

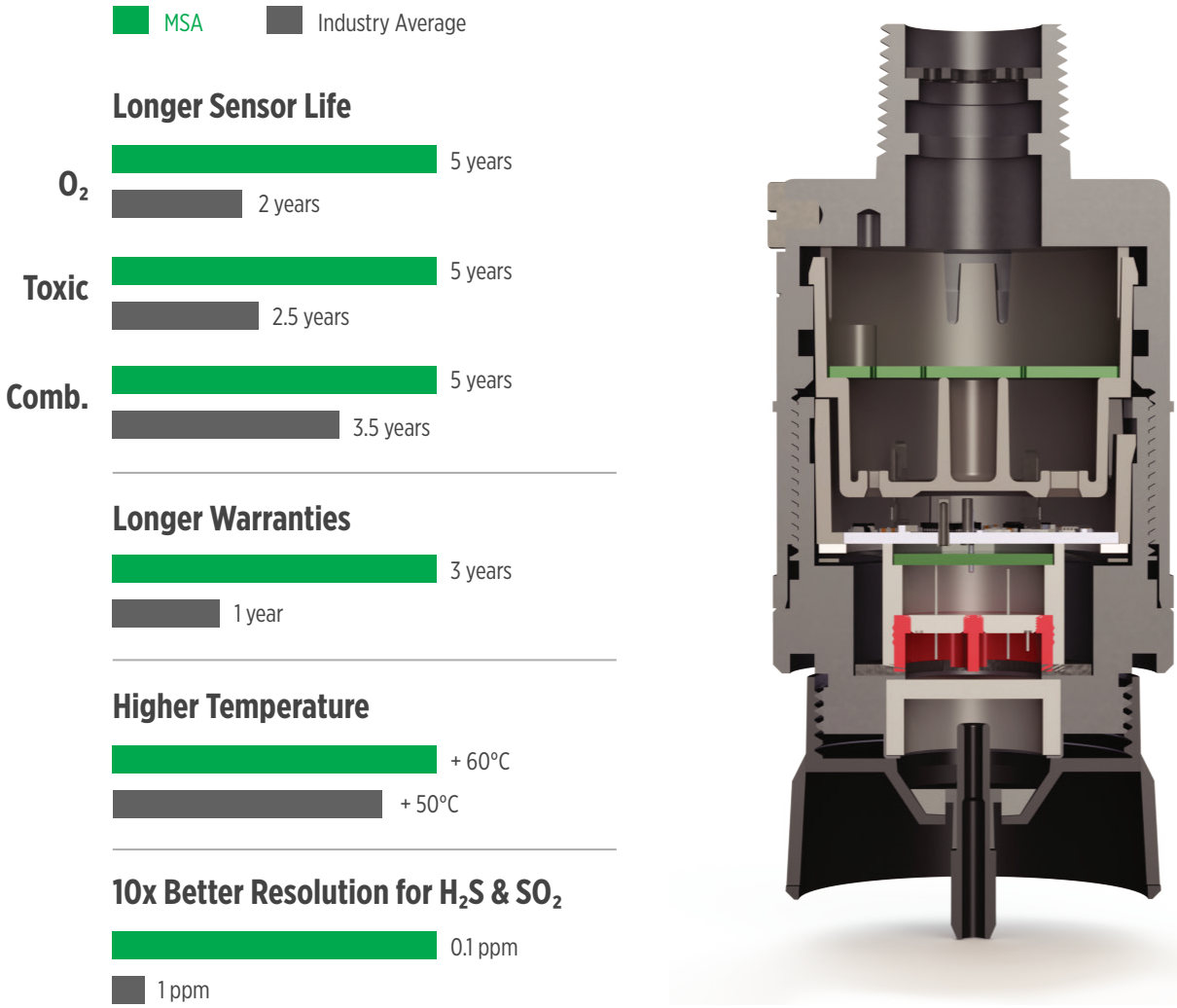
Download on the App Store

X/S Connect App

ADVANCING SENSOR TECHNOLOGY

Up to **2 YEARS** between calibrations!

XCell® SENSORS



** Data may vary for different gases and configurations*

RE-CALIBRATE YOUR EXPECTATIONS

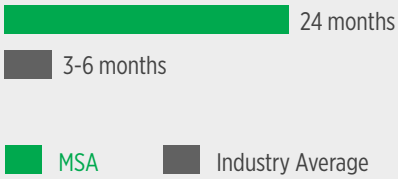
TruCal® TECHNOLOGY

Adaptive Environmental Compensation (AEC)

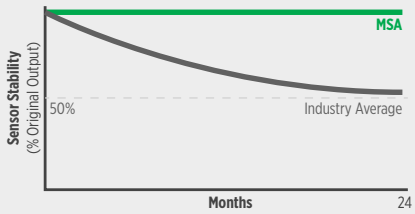
Longer Sensor Life

Automatically self-checks 4x/day

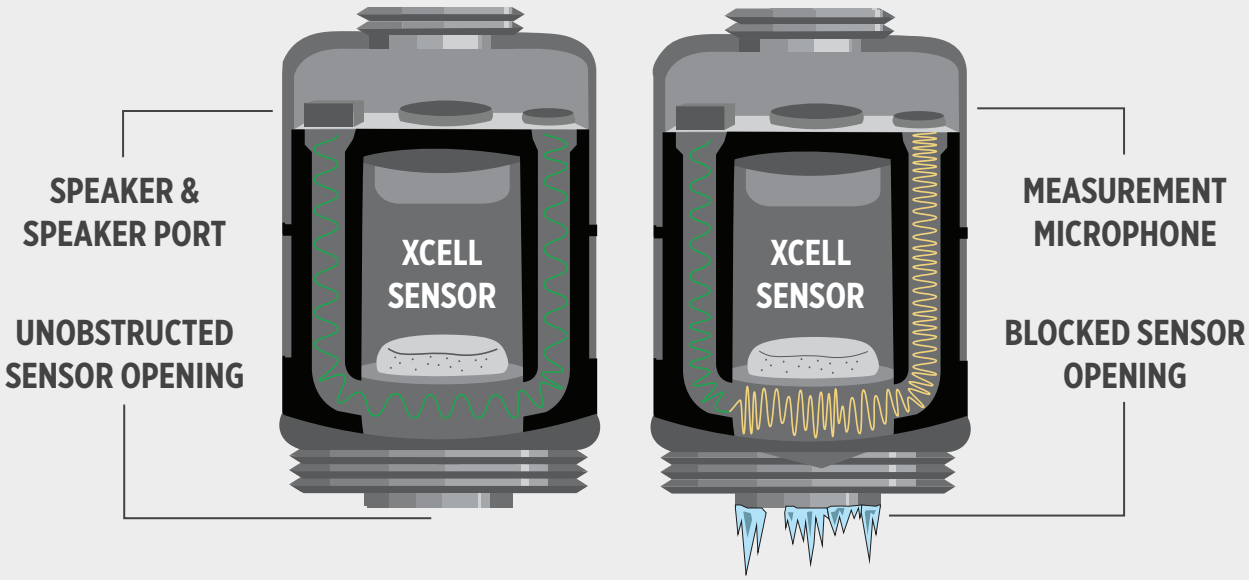
Longer Calibration Cycles



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. 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

POWERED BY

XCell SENSORS

WITH

TruCal® TECHNOLOGY

SafeSwap®

Safely and quickly replace sensors without turning off the instrument

IT MAKES SENSE... NO EXCEPTIONS

EXPECTED LIFE

WARRANTY

PATENTS

We're going to help you save*

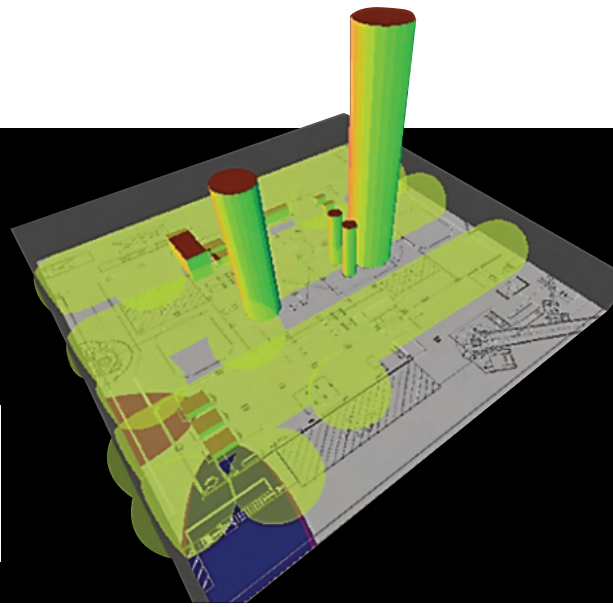
Installation	30%	~$7,000
Annual maintenance	50%	~$1,500
Over the life of the product	75%	~$15k

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*

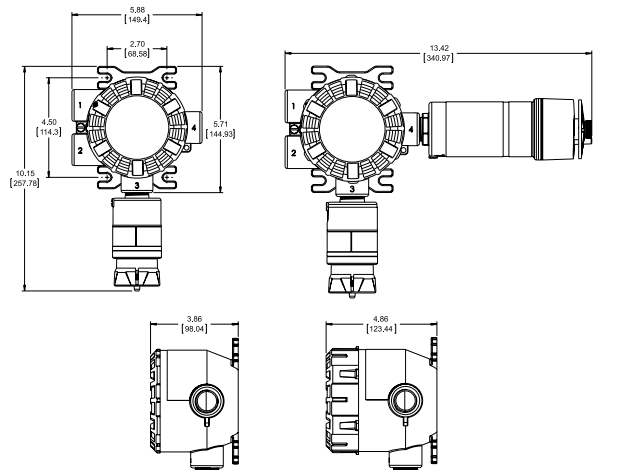
Product Specifications		
COMBUSTIBLE GAS SENSOR TYPE	Catalytic Bead (XCell combustible) Infrared (XIR Plus)	
TOXIC GAS & OXYGEN SENSOR TYPE	**XIR PLUS** **XCell Toxic** **XCell O_2** **Electrochem.**	Carbon Dioxide (CO_2) Ammonia (NH_3), Carbon Monoxide (CO), Carbon Monoxide (CO) H_2-resistant, Hydrogen Sulfide (H_2S), Chlorine (Cl_2), Chlorine Dioxide (ClO_2), Sulfur Dioxide (SO_2) Oxygen (O_2) Ammonia (NH_3), Ethylene Oxide (ETO) Hydrogen (H_2), Hydrogen Chloride (HCl), Hydrogen Cyanide (HCN), Hydrogen Fluoride (HF) Nitric Oxide (NO), Nitrogen Dioxide (NO_2), Sulfur Dioxide (SO_2)
SENSOR MEASURING RANGES	**Combustible** **CO_2** **CO** **CO, H_2-resistant** **Cl_2** **ClO_2** **ETO** **H_2** **HCl** **HCN** **HF** **H_2S** **NH_3** **NO** **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 0-3 ppm 0-10 ppm 0-1000 ppm 0-50 ppm 0-50 ppm 0-10 ppm 0-10, 0-50, 0-100, 0-500 ppm 0-100, 0-1000 ppm 0-100 ppm 0-10 ppm 0-25% 0-25, 0-100 ppm
TYPICAL SENSOR LIFE	**XCell Sensors** **Infrared**	5 years 10 years
APPROVALS CLASSIFICATION	*Markings vary by component.* *See manual for specific component markings.*	
DIVISIONS (US/CAN)	Class I, II, III; Div 1 & 2, T4/T5/T6	
ZONES (GLOBAL)	Ex db nA IIC T5 Gb (Class I, Zone 1/Zone2) Ex tb IIIC T85°C Db (Class II, Zone 21)	
ENCLOSURE RATING	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, FM*, ATEX, IECEx, INMETRO, DNV-GL Marine, CE Marking. SIL 2 suitable. Complies with C22.2 No. 152, FM 6320	
Environmental Specifications**		
OPERATING TEMPERATURE RANGE	*** May differ by gas type, see data sheet* **XCell** **XIR PLUS**	 -40°C to +60°C -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	

	Without Relays	*With Relays*
XIR PLUS	5.7 W	6.7 W
XCell combustible	3.9 W	4.9 W
XCell Toxic & O_2	1.8 W	2.8 W
XIR PLUS & XCell combustible	9.9 W	10.9 W
XIR PLUS & XCell toxic or O_2	6.0 W	7.0 W
Dual XIR PLUS	10.6 W	11.6 W
Dual XCell toxic & O_2	2.6 W	3.6 W
Dual XCell combustible	9.6 W	10.6 W
Dual XCell comb. & XCell toxic or O_2	4.3 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 *Refer to manual for mounting distances.*

Dimensions



** See manual for FM approved sensors.*

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

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