

ULTIMA® X5000



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"*

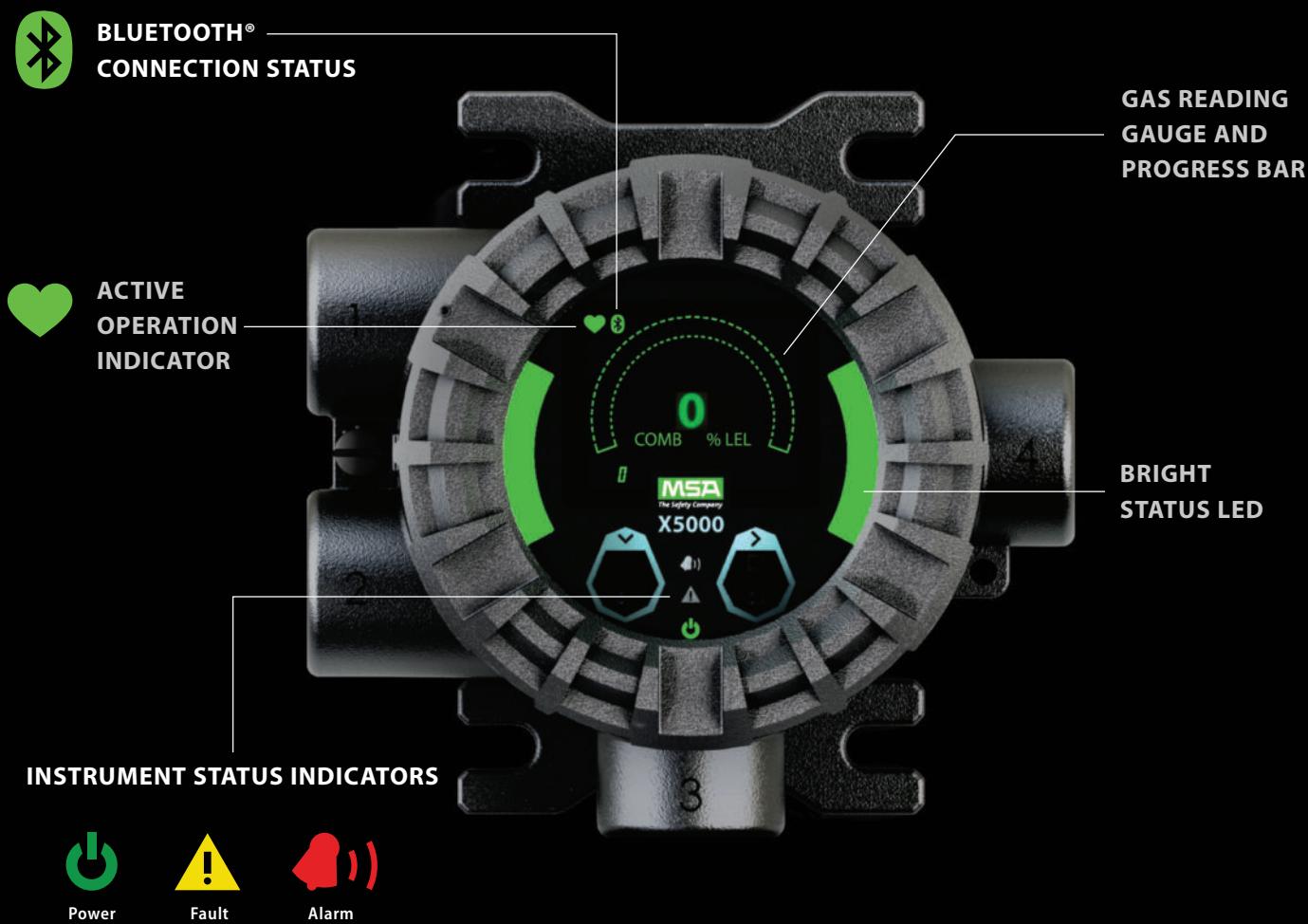


*YOU HAVEN'T BEEN ABLE
TO DO ANYTHING ABOUT IT...
UNTIL NOW*

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



ALL NEW DESIGN



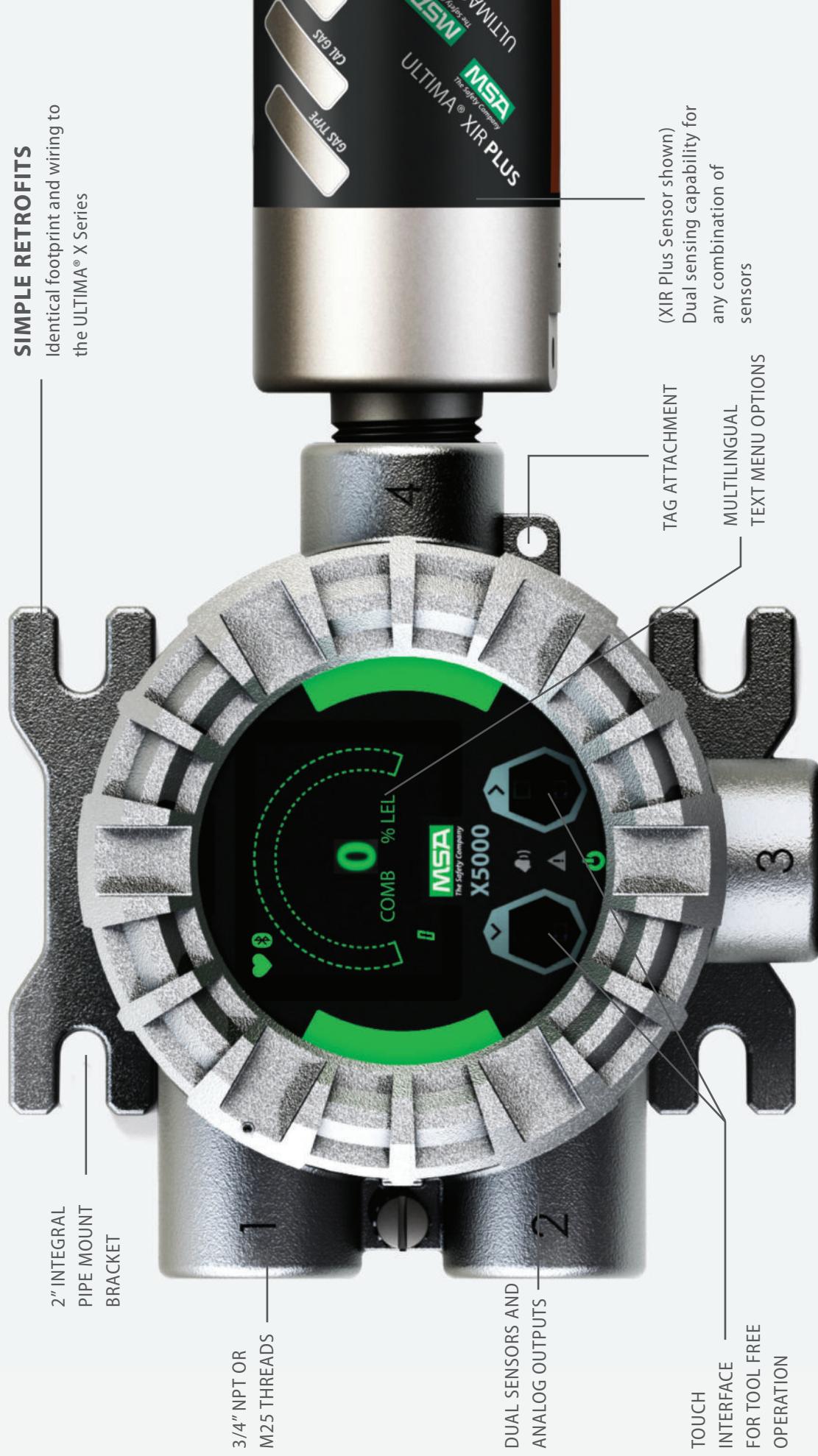
**STAY CONNECTED.
WORK SMARTER.**

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



DO MORE WITH LESS

1 Transmitter = 2X Sensing Power



Combustible, Toxic
or Oxygen
Digital Sensors



POWERED BY
Xcell
SENSORS
WITH
TruCal®
PLATFORM

Safely and quickly replace
sensors without turning off
the instrument

(ACTUAL SIZE)



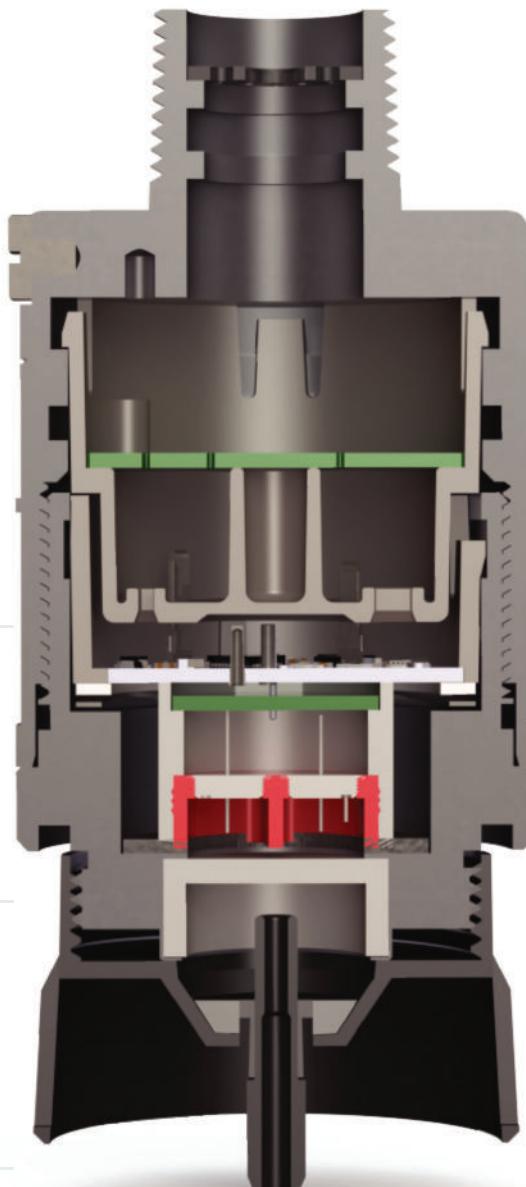
MATERIAL OPTIONS

STAINLESS STEEL
Ultra Corrosion
Resistant
8.8 lbs

NEW ADVANCED SENSOR TECHNOLOGY

Up to 1.5 YEARS between calibrations!

XCell[®]
SENSORS

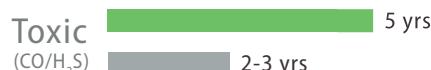


TruCal[®]
TECHNOLOGY

*only CO & H₂S XCell Sensors

MSA Industry Avg

Longer Sensor Life



Longer Warranties



Higher Temperature

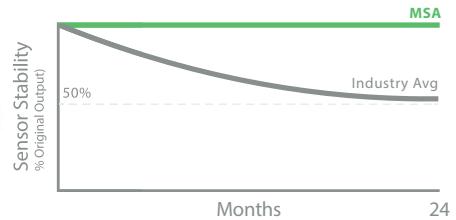


10x Better Resolution for H₂S



MSA Industry Avg

Better Stability (Lower Drift)



Longer Calibration Cycles



Worry-Free Operation



Automatically self-checks 4x/day

* Data may vary for different gases and configurations

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%

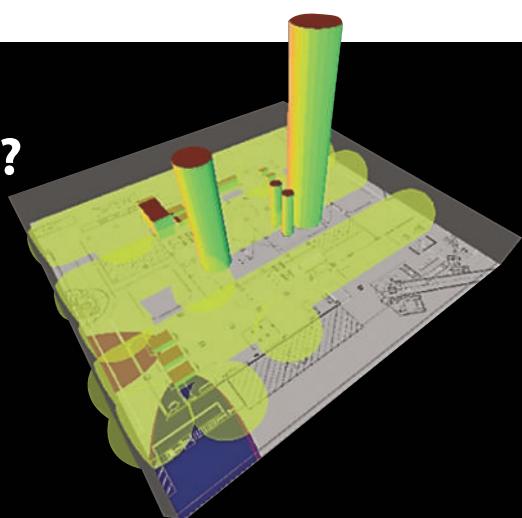
~\$15k

* Based on 10 sensors and 2 sensors/transmitter

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 for more information:
<https://us.msasafety.com/gas-mapping>



ULTIMA X5000 Gas Monitor Specifications

PRODUCT SPECIFICATIONS					
COMBUSTIBLE GAS SENSOR TYPE		Catalytic Bead (XCell Comb) Infrared (XIR PLUS)			
TOXIC GAS & OXYGEN SENSOR TYPE		Hydrogen Sulfide H ₂ S (XCell Toxic) Carbon Monoxide CO (XCell Toxic) Carbon Monoxide CO H ₂ -Resistant (XCell Toxic) Oxygen O ₂ (XCell O ₂)			
SENSOR MEASURING RANGES		Combustible: 0-100% LEL H ₂ S: 0-10, 0-50, 0-100 ppm CO: 0-100, 0-500, 0-1000 ppm CO-H ₂ Resist: 0-100 ppm O ₂ : 0-25%			
TYPICAL SENSOR LIFE		5 years - XCell Sensors 10 years - infrared			
SENSOR PERFORMANCE*	T90 (TYPICAL)	REPEATABILITY	ZERO DRIFT (PER YEAR)		
XIR PLUS	<2 sec.	≤ +/- 1% LEL	<5% LEL		
XCELL COMB	<22 sec.	≤ +/- 1% LEL	<5% LEL		
XCELL H ₂ S	<23 sec.	+/ - 5%	<1% full scale		
XCELL O ₂	<15 sec.	≤ +/- 0.3% Vol	0.2% Vol		
XCELL CO	<9 sec.	+/ - 5%	<1% full scale		
APPROVALS		US Divisions			
CLASSIFICATION		Class I Div 1 Groups A-D, T5, Type 4X, IP66 Class II Div 1 Groups E-G, T6; Class III			
US Zones		Class I Zone 1 AEx db IIC T5 Gb Class II Zone 21 AEx tb IIIC T85°C Db			
Global Zones		Ex db IIC T5 Gb Ex tb IIIC T85°C Db			
WARRANTY	X5000 Transmitter: 2 years XIR PLUS: 10 years source, 5 years electronics XCell Sensors: 3 years				
APPROVALS	CSA, ATEX, IECEx, CE Marking. Complies with C22.2 No. 152, FM 6320, ANSI/ISA 12.13.01, ATEX/ IEC: EN 60079-29-1 Suitable for SIL 2				
ENVIRONMENTAL SPECIFICATIONS					
OPERATING TEMPERATURE RANGE	XCell: -40°C to +60°C XIR PLUS: -40°C to +60°C (may differ by gas, see manual)				
STORAGE TEMPERATURE RANGE	-40°C to +60°C				
RELATIVE HUMIDITY (NON-CONDENSING)	10-95% (XCell Toxics & O ₂) 0-95% (XCell Comb) 0-95% (XIR PLUS)				

* Typical response at standard temperature and pressure test conditions

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products. Specifications subject to change without notice.



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on our web site:
www.MSA safety.com

MECHANICAL SPECIFICATIONS		
INPUT POWER	10 to 30 VDC, 3 wire, <5W nominal	
SIGNAL OUTPUT	Dual 4-20 mA current source, HART, Bluetooth. Optional: w/o Bluetooth	
RELAY RATINGS	5A @ 30VDC; 5A @ 220 VAC (3X) SPDT – fault, warn, alarm	
RELAY MODES	Common, discrete, horn	
NOMINAL MAX POWER (W/ RELAYS)	XIR PLUS XCell Comb XCell Toxic & O ₂ XIR PLUS and XCell Comb XIR PLUS and XCell Toxic & O ₂	6.7W 5.5W 2.8W 9.6W 7.0W
	Dual XIR PLUS Dual XCell Toxic & O ₂	11.6W 3.6W
	Dual XCell Comb	10.6W
	Dual XCell Comb and XCell Toxic & O ₂	5.5W
EMC DIRECTIVE	Complies with EN 50270, EN 61000-6-3, 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, calibration 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.	

