ULTIMA® X5000 **Gas Monitor**

The future looks bright.
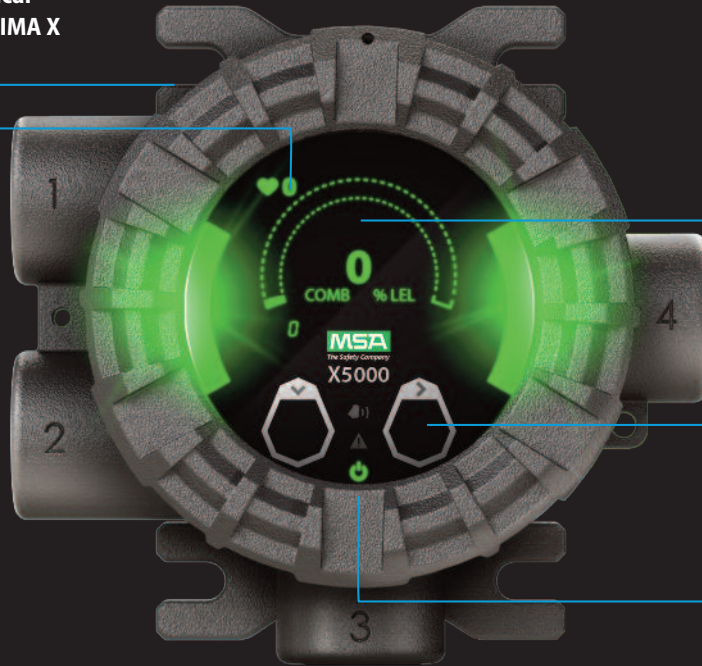

MSA
The Safety Company

Simple retrofits have identical footprint and wiring to ULTIMA X Gas Monitor series.

Bluetooth® wireless technology allows mobile device to act as HMI screen and controller.

GET IT ON
Google Play

Download the X/S Connect App from the Google Play store.

Reduce setup time by at least 50% with the X/S Connect App

Intuitive display features new design equipped with organic LED (OLED) display, with full word text in 9 languages. Bright green, yellow and red status LEDs for extreme visibility.

Industry-first, touch-button interface provides intuitive, tool-free user experience.

Instrument status indicators illuminate power, fault and alarm conditions.

Advanced Sensor Technology

POWERED BY

XCell®
S E N S O R S

WITH

TruCal®

- Patented XCell Sensors with TruCal technology extend calibration cycles for as long as 18 months, actively monitor sensor integrity and compensate for environmental factors and electrochemical sensor drift.*
- Worry-free operation; automatically self-checks four times per day.
- Three-year warranty and five-year expected life for XCell Sensors.
- **SafeSwap** enables safe and quick XCell Sensor replacement without powering off gas detector.
- **Dual sensor capability** doubles sensing power with half the footprint of a single gas sensor transmitter.

SafeSwap®

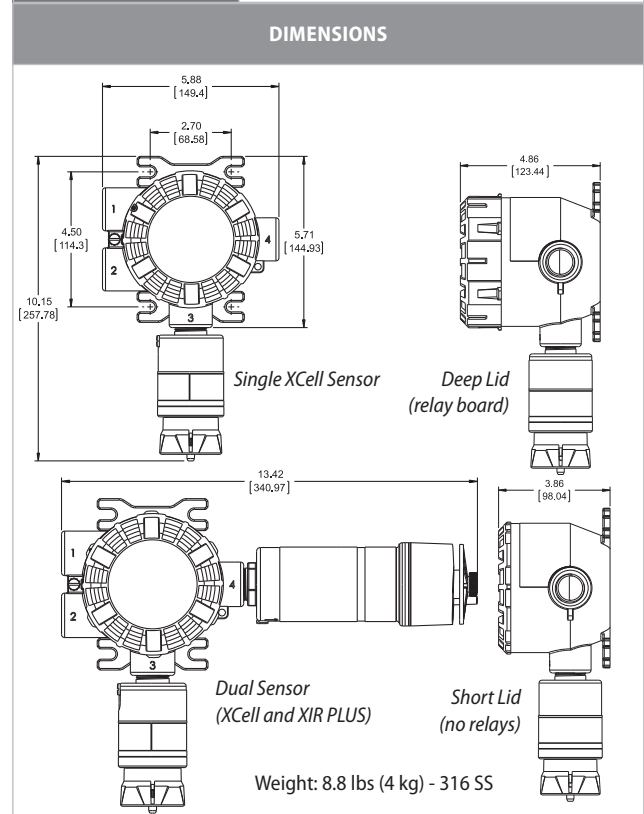
Only CO & H_2S XCell Sensors

Applications

- Chemical
- Oil and gas
- Petrochemical

- Utilities
- Wastewater
- General industry

*MSA**X5000**.com*

ULTIMA® X5000 **Gas Monitor**

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PRODUCT SPECIFICATIONS

COMBUSTIBLE GAS SENSOR TYPE	Catalytic Bead (XCell Comb)
	Infrared (XIR PLUS)
TOXIC GAS & OXYGEN SENSOR TYPE	Hydrogen Sulfide H_2S (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_2S: 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_2S	<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 CLASSIFICATION	**US Divisions**
	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, IEC/EN: EN 60079-29-1, ANSI/ISA 12.13.01.
	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.

ISO 9001 CERTIFIED Quality System — MSA NORTH AMERICA

Corporate Headquarters:
MSA – The Safety Company
1000 Cranberry Woods Drive
Cranberry Township, PA 16066
United States
+1-724-776-8600
info.us@MSAsafety.com

Additional locations can be found on our web site:
www.MSAsafety.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	6.7W
XCell Comb	5.5W
XCell Toxic & O_2	2.8W
XIR PLUS and XCell Comb	9.6W
XIR PLUS and XCell Toxic & O_2	7.0W
Dual XIR PLUS	11.6W
Dual XCell Toxic & O_2	3.6W
Dual XCell Comb	10.6W
Dual XCell Comb and XCell Toxic & O_2	5.5W

EMC DIRECTIVE	Complies with EN 50270, EN 61000-6-4, 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, 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.*

DIMENSIONS

5.88 [149.4]
2.70 [68.58]
4.50 [114.3]
5.71 [144.93]
10.15 [257.78]
Single XCell Sensor

4.86 [123.44]
Deep Lid (relay board)

13.42 [340.97]
Dual Sensor (XCell and XIR PLUS)

3.86 [98.04]
Short Lid (no relays)

Weight: 8.8 lbs (4 kg) - 316 SS