

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"*

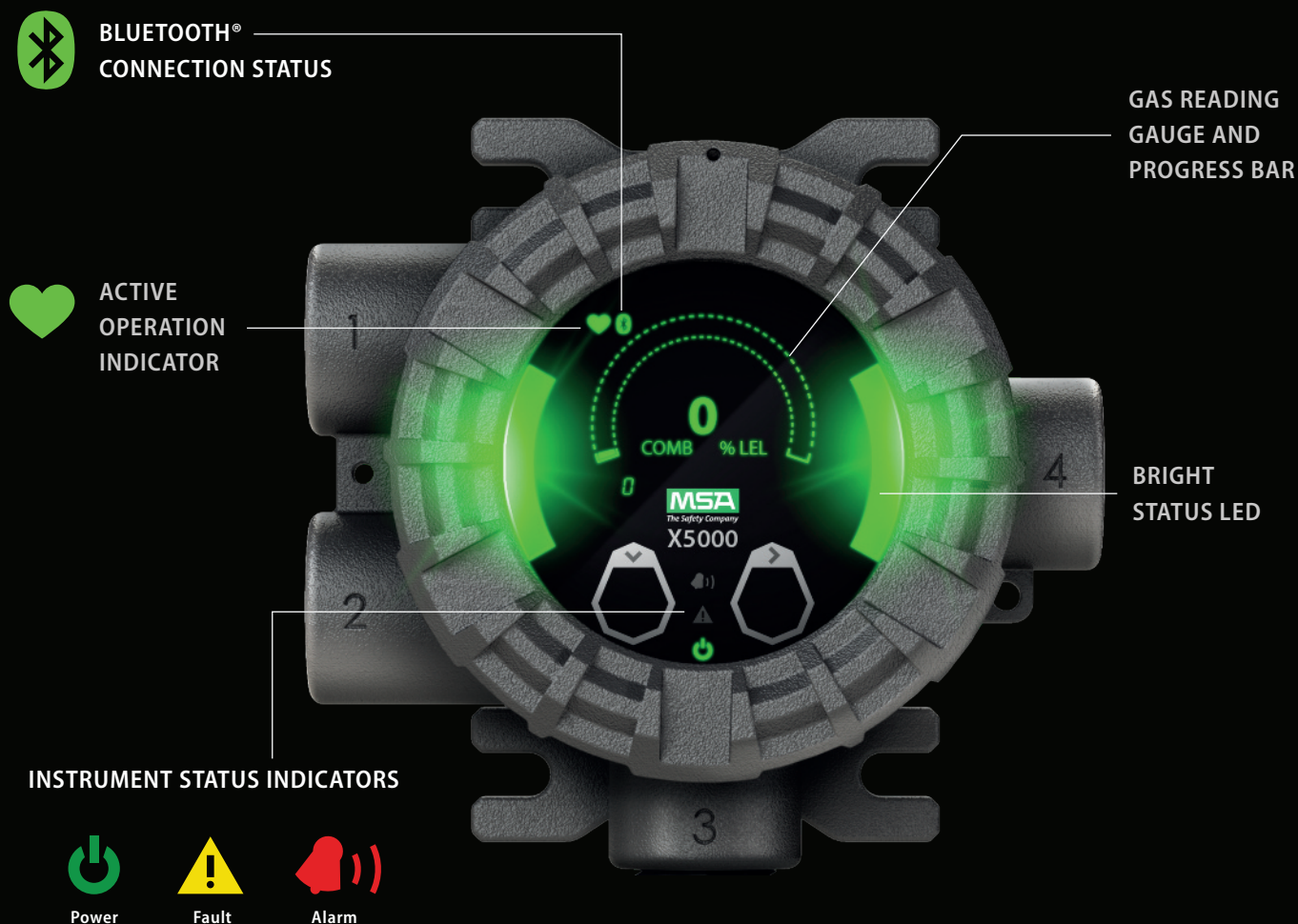


*YOU HAVEN'T BEEN ABLE
TO DO ANYTHING ABOUT IT..
UNTIL NOW*

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



ALL NEW DESIGN



STAY CONNECTED. WORK SMARTER.

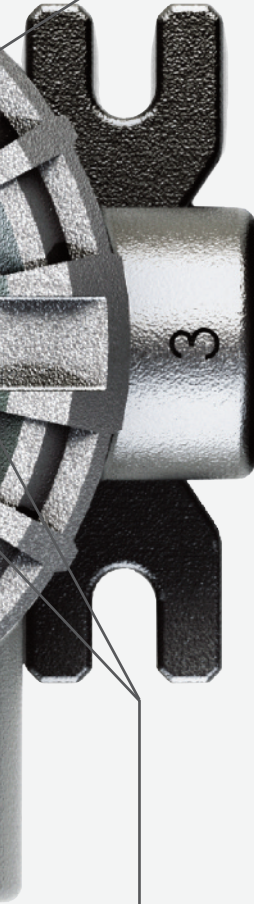
- Bluetooth® wireless technology
- Check status and get alerts up to 23 m away
- Modify settings/setpoints/alarms
- Initiate calibration and view progress
- Reduce setup time by at least 50%



Do MORE WITH LESS

1 Transmitter = 2X Sensing Power





TOUCH
INTERFACE
FOR TOOL FREE
OPERATION

Combustible, Toxic
or Oxygen
Digital Sensors

TAG ATTACHMENT

MULTILINGUAL
TEXT MENU OPTIONS

(XIR Plus Sensor shown)
Dual sensing capability for
any combination of
sensors

POWERED BY
XCell
S E N S O R S

WITH
TruCal
PLATFORM

SafeSwap[®]

Safely and quickly replace
sensors without turning off the
instrument



(ACTUAL SIZE)

MATERIAL:
Stainless Steel
Ultra Corrosion Resistant
4 kg

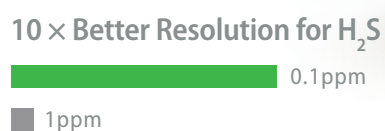
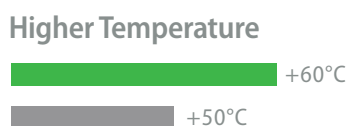
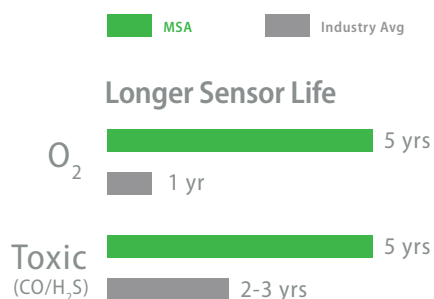
NEW ADVANCED SENSOR TECHNOLOGY

Up to 1.5 YEARS between calibrations!

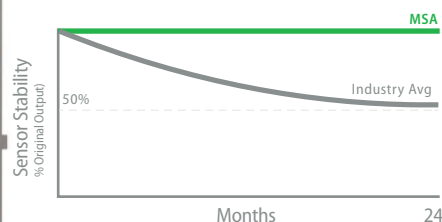
XCell
SENSORS

TruCal[®]
TECHNOLOGY

only CO & H₂S XCell Sensors



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

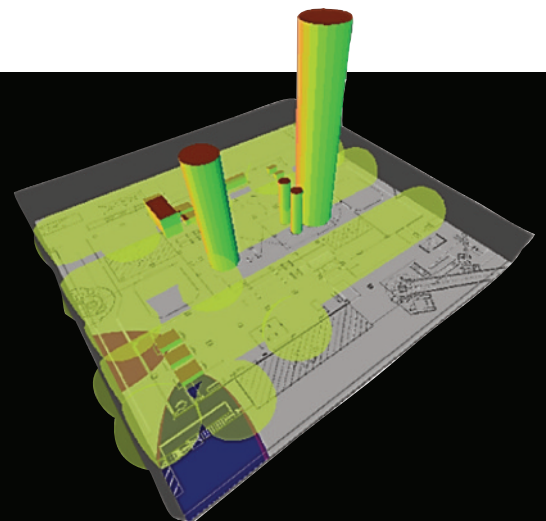
Installation	30 %	~ 6,000 €
Annual Maintenance	50 %	~ 1,300 €
Over the life of the product	75 %	~ 13K €

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://gb.MSAsafety.com/gas-mapping>



ULTIMA® X5000 Gas Monitor

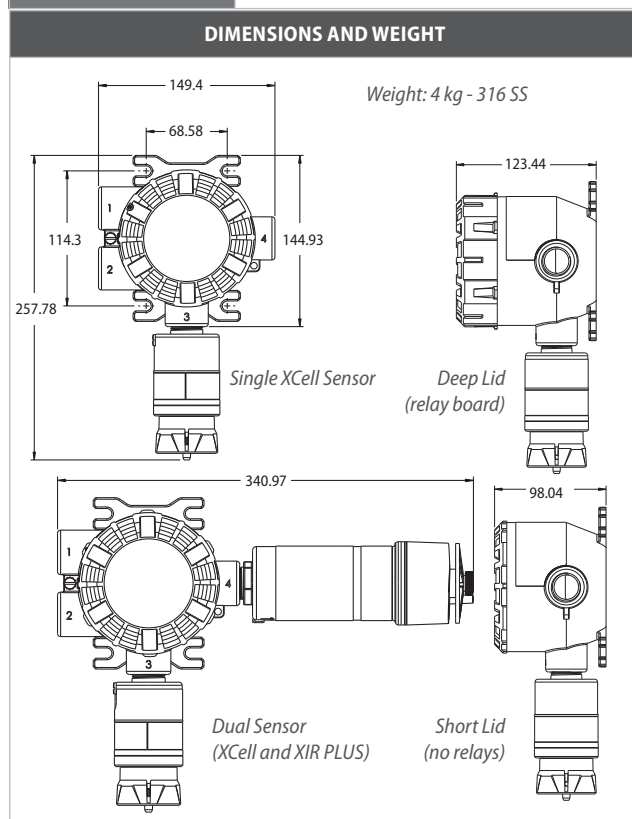
Specifications



PRODUCT SPECIFICATIONS			
COMBUSTIBLE GAS SENSOR TYPE	Catalytic Bead (XCell Comb) Infrared (XIR PLUS)		
TOXIC GAS & OXYGEN SENSOR TYPE	Carbon Dioxide (XIR PLUS) (Europe pending) Carbon Monoxide CO (XCell Toxic) Carbon Monoxide CO H ₂ -Resistant (XCell Toxic) Hydrogen Sulfide H ₂ S (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 ₂ : 0–2%, 0–5% Vol 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*	T ₉₀ (TYPICAL)	REPEATABILITY	ZERO DRIFT (PER YEAR)
XIR PLUS	< 2 sec.	+/- 1% LEL	<2% full scale
XCELL COMB	<30 sec.	+/- 1% LEL	<5% LEL
XCELL H ₂ S	<23 sec.	+/- 3%	<1% full scale
XCELL O ₂	<11 sec.	+/- 0.1% Vol	0.2% Vol
XCELL CO	<11 sec.	+/- 3%	<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, RED, FCC 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)		

*At ambient conditions

MECHANICAL SPECIFICATIONS	
INPUT POWER	10 to 30 VDC, 3 wire, <5W nominal
SIGNAL OUTPUT	Dual 4-20 mA current source, HART
BLUETOOTH (OPTIONAL)	Bluetooth Low Energy (BLE) v4.3 or higher
RELAY RATINGS	5A @ 30VDC; 5A @220 VAC (3X) SPDT – fault, warn, alarm
RELAY MODES	Common, discrete, horn
NOMINAL MAX POWER (W/ RELAYS)	XIR PLUS 6.7 W
	XCell Comb 5.5 W
	XCell Toxic & O ₂ 2.8 W
	XIR PLUS and XCell Comb 9.6 W
	XIR PLUS and XCell Toxic & O ₂ 7.0 W
	Dual XIR PLUS 11.6 W
	Dual XCell Toxic & O ₂ 3.6 W
	Dual XCell Comb 10.6 W
Dual XCell Comb and XCell Toxic & O₂	5.5 W
EMC DIRECTIVE	Complies with EN 50270 type 2, 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. <i>Refer to manual for mounting distances and wire gauge.</i>



Subject to change without notice
ID 07-720.2 GB/02