

S5000 Gas Monitor



MSA
The Safety Company

GM**S5000**.com

A DETECTOR AS TOUGH AS YOU ARE...





"LOWER TEMPERATURE SPEC? ...

ARCTIC WINTERS"

"IT HAS TO BE THE MOST RELIABLE PIECE

OF EQUIPMENT OUT HERE"

"IF THE DETECTOR DOESN'T WORK,

WE DON'T SO IT NEEDS TO WORK"

"I DON'T HAVE TIME TO BABYSIT

A GAS DETECTOR"





IS THE ONLY DETECTOR YOU'LL NEED

"I WANT TO INSTALL IT AND FORGET ABOU<u>T IT"</u>





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%



WHEN EVERYTHING EL

It just works. All day. Every day.



DUAL SENSOR CAPABILITY

> **PASSIVE AND DIGITA SENSOR OPTIONS**

POWERED BY

WITH

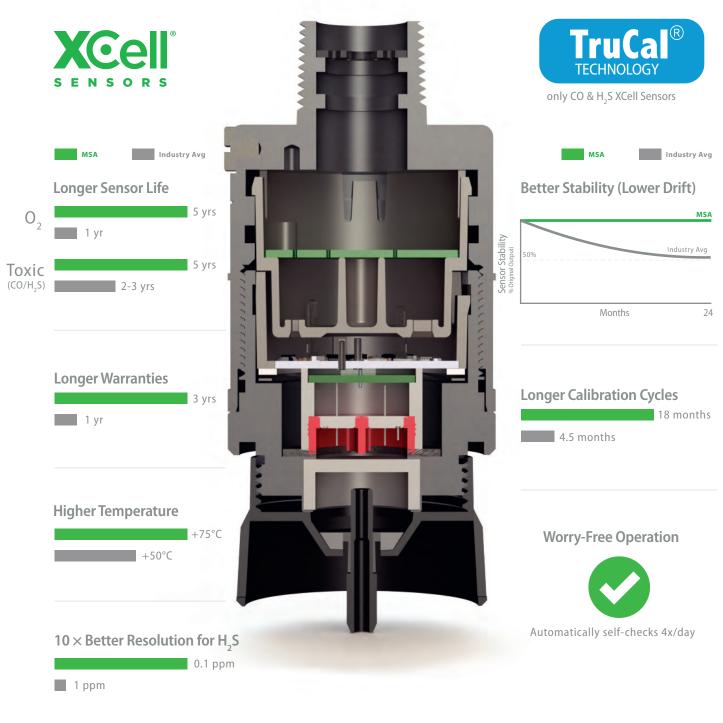
TruCal®

MATERIAL: Stainless Steel Ultra Corrosion Resistant 3.6 kg



NEW ADVANCED SENSOR TECHNOLOGY

Up to 1.5 YEARS between calibrations!



Data may vary for different gases and configurations

IT MAKES SENSE ... NO EXCEPTIONS









were going to neip you sav	oing to help you sa	ve
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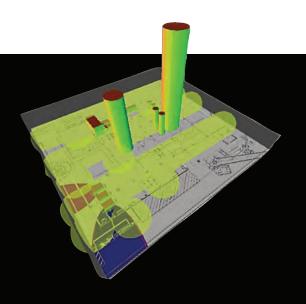
Installation	30%	~6,000€
Annual Maintenance	50 %	~1,300€
Over the life of the product	75 %	~13K€

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



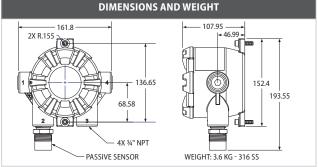
S5000 Gas Monitor

Specifications



PR	ODUCT SPE	CIFICATIONS		
COMBUSTIBLE GAS SENSOR TYPE				
TOXIC GAS SENSOR TYPE	Carbon Monoxide CO (XCell Toxic)			
SENSOR MEASURING RANGES				
TYPICAL SENSOR LIFE	10 years – in	alytic bead, MOS, X0 frared	Cell Sensor	
SENSOR PERFORMANCE*	T ₉₀ (TYPICAL)	REPEATABILITY	ZERO DRIFT (PER YEAR)	
PASSIVE COMB		+/- 3% LEL	< 5% LEL	
PASSIVE MOS	<60 sec.	+/- 2 ppm	< 0.1 ppm	
IR400	< 3 sec.	+/- 3% LEL	< 2% LEL	
XCELL COMB	<30 sec.	+/- 1% LEL	<5% LEL	
XCELL H₂S	<23 sec.	+/- 3%	<1% full scale	
XCELL CO	<11 sec.	+/- 3%	<1% full scale	
XCELL O ₂	<11 sec.	≤ +/- 0.1% Vol	0.2% Vol	
APPROVALS CLASSIFICATION	Class II, Div 1&2, Groups E, F & G, T6; Class III Type 4X, IP66 US Zones Class I, Zone 1 AEx db IIC T5 Gb Class I, Zone 2 AEx nA nC IIC T4 Gc Class II, Zone 21 AEx tb IIIC T85°C Db Canadian Zones/ATEX/IECEX Ex db IIC T5 Gb Ex nA nC IIC T4 Gc Ex tb IIIC T85°C Db RED, FCC (see manual for complete CSA listings)			
WARRANTY	Passive Com	nitter: 2 years, XCell b, Passive MOS, IR40		
APPROVALS	CSA, ATEX, IECEx, CE Marking Complies with C22.2 No. 152, FM 6320, IEC/EN 60079-29-1, ANSI/ISA 12.13.01. Suitable for SIL 2			
ENVIR	ONMENTAL	SPECIFICATIONS		
OPERATING TEMPERATURE RANGE	Passive Comb (screened): -40°C to +75°C			
STORAGE TEMPERATURE RANGE OPERATING HUMIDITY RANGE	(includes housing and all sensors) 10–95% (XCell Toxics & O ₂)			

MECHANICAL SPECIFICATIONS				
INPUT POWER	24 VDC nominal, 12 to 30 VDC			
SIGNAL OUTPUT	Dual 4–20 mA current source, HART, Modbus, 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)	Passive Comb Passive MOS IR400 XCell Comb XCell Toxic & O ₂ IR400 + XCell Comb IR400 + XCell Toxic or O ₂ Dual XCell Toxic or O ₂ Dual XCell Comb XCell Comb XCell Comb	6.0 W 10.8 W 8.9 W 6.0 W 3.6 W 11.8 W 9.6 W 4.3 W 8.4 W 9.1 W		
EMC DIRECTIVE	Complies with EN 50270 type 2, EN 61000-6-4			
STATUS INDICATORS	4-digit scrolling LED, icons depicting fault, warn, alarm, Bluetooth, 1 and 2 to indicate sensor reading displayed			
RS-485 OUTPUT	Modbus RTU, suitable for linking up to 128 units or up to 247 units with repeaters			
BAUD RATE	2400, 4800, 9600, 19200, 38400, 115200			
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, analog output mismatch fault			
CABLE REQUIREMENTS				
DIA	MENSIONS AND WEIGHT			



Subject to change without notice ID 07-721.2 GB/02

^{*}At ambient conditions