S5000 Gas Monitor

Extreme Durability. Anytime. Anywhere.

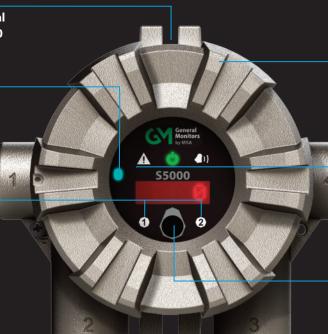


Simple retrofits have identical footprint and wiring to \$4000 Gas Monitor series.

Bluetooth® wireless technology allows mobile device to act as HMI screen and controller. Download the X/S Connect App from the Google Play store

Dual sensor capability increases detection coverage without increasing CAPEX expense. Remote mount gas sensors up to 100 m away.





Wide operating temperature for extreme environments (-55°C to +75°C).

Instrument status indicators illuminate power, fault and alarm conditions.

Intuitive user experience with industry-first touch-button interface or familiar magnetic interface.

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

Advanced Sensor Technology

POWERED BY



WITH



- 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.

SafeSwap®

SafeSwap*

Applications

- Compressor stations
- · CNG maintenance facilities
- Drilling and production platforms
- · Fuel loading facilities

- · LNG/LPG processing and storage
- Oil well logging
- Refineries



*Only CO & H₂S XCell Sensors



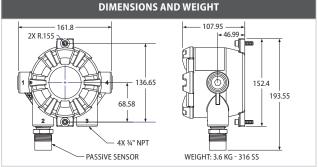
S5000 Gas Monitor

Specifications



PR	ODUCT SPE	CIFICATIONS		
COMBUSTIBLE GAS SENSOR TYPE	Catalytic Bead (Passive Comb, XCell Comb) Infrared (IR400)			
TOXIC GAS SENSOR TYPE	Carbon Monoxide CO (XCell Toxic) Carbon Monoxide CO H ₂ -Resistant (XCell Toxic) Hydrogen Sulfide H ₂ S (Passive MOS, XCell Toxic) Oxygen O ₂ (XCell O ₂)			
	All Combustible: 0–100% LEL H ₂ S MOS: 0–20, 0–50, 0–100 ppm H ₂ S XCell: 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 SENSOR	5 years – catalytic bead, MOS, XCell Sensor 10 years – infrared			
PERFORMANCE*	T ₉₀ (TYPICAL)	REPEATABILITY	ZERO DRIFT (PER YEAR)	
PASSIVE COMB	<30 sec.	+/- 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 O₂	<11 sec.	≤ +/- 0.1% Vol	0.2% Vol	
APPROVALS CLASSIFICATION	Class I, Div 1&2, Groups A, B, C & D, T5/T4; 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 APPROVALS	S5000 Transmitter: 2 years, XCell Sensors: 3 years Passive Comb, Passive MOS, IR400: 2 years CSA, ATEX, IECEx, CE Marking			
	Cost, ATEX, ICEE, 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		
TEMPERATURE	Passive Comb (sintered): -40°C to +70°C Passive Comb (screened): -40°C to +75°C Passive MOS (sintered): -40°C to +70°C Passive MOS (screened): -40°C to +75°C IR400 (CSA): -40°C to +75°C IR400 (ATEX/IECEX): -60°C to +75°C XCell Comb: -55°C to +60°C XCell Toxic & O ₂ : -40°C to +60°C			

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	3-wire shielded cable for single sensor and 4-wire shielded cable for dual sensor configurations. Accommodates up to 12 AWG Refer to manual for mounting distances.		
-014	MENSIONS AND WEIGHT		



Subject to change without notice ID 07-724.2 GB/01

^{*}At ambient conditions