

PrimaX Gas Monitor

Versatile gas detection to meet your needs

MSA's PrimaX Gas Monitor offers proven quality and reliability and is available in explosion-proof and intrinsically-safe versions. Innovative enclosure design, ease of use, fast installation, and suitability for both indoor and outdoor installations make the PrimaX Gas Monitor your choice for versatile gas detection.

PrimaX I Gas Monitor

- Innovative modular design for detection of toxic gases, oxygen or combustible gases
- Robust, anti-static, reinforced nylon, IP66-rated housing
- Calibration via convenient, built-in keypad
- Large, easy-to-read LCD display of menu, gas concentration and error messages
- Plug-in connector for easy and rapid sensor replacement
- 4–20 mA output signal and SIL 2 certification
- Optional HART digital communication provides configuration, calibration and diagnostics

PrimaX P Gas Monitor

- Powder-coated aluminum enclosure (IP66)
- Easy menu navigation using integrated 4-way keypad
- 3- or 4-wire connection
- Plug-in replacement sensor
- 4–20 mA output signal and SIL 2 certification
- HART digital communication and 2 relay options



Description	Values	PrimaX P Monitor	PrimaX I Monitor
Sensors			
COMBUSTIBLE	Catalytic	■	
OXYGEN & TOXIC	Electrochemical	■	■
Performance			
TYPICAL RESPONSE TIME*	t50 ≤ 10 sec. / t90 ≤ 30 sec. (combustible) t20 ≤ 12 sec. / t50 ≤ 30 sec. (oxygen, toxic)	■	■
SENSOR OPERATING LIFE*	Up to 3 years in clean air	■	■
OPERATING TEMPERATURE*	-40°F to +160°F (-40°C to +70°C)	■	■
STORAGE TEMPERATURE*	-40°F to +160°F (-40°C to +70°C)	■	■
OPERATING HUMIDITY RANGE	5% to 95% RH non-condensing	■	■
OPERATING PRESSURE RANGE	80–120 kPa (600-900 mm Hg)	■	■
Electrical			
SUPPLY VOLTAGE	10 to 28 VDC (24 VDC nominal)	■	■
OUTPUT SIGNAL	4–20 mA (max. load 200 ohm)	■	■
POWER CONSUMPTION	3 watt typical at 24 VDC	■	
	0.7 watt typical at 24 VDC		■
TERMINALS	3 or 4 wire – up to 12 AWG	■	
	2 wire – up to 12 AWG		■
Display & Indicators			
DISPLAY	Alphanumeric LCD	■	■
LED STATUS INDICATORS	Green, yellow, red	■	
Options			
HART DIGITAL PROTOCOL	Diagnostics and configuration	■	■
RELAY OUTPUT	Alarm and fault – 1 A / 30 VDC SPDT	■	
Physical			
INGRESS PROTECTION	IP66	■	■
WEIGHT	3.5 lbs. (1.6 kg)	■	
	1.5 lbs. (0.7 kg)		■
DIMENSIONS (H X W X D)	8.6" x 6.4" x 3.9" (220 x 162 x 100 mm)	■	
	8.6" x 6.4" x 3.2" (220 x 162 x 81 mm)		■
MATERIAL	Powder-coated aluminum	■	
	Anti-static reinforced nylon		■
CONDUIT ENTRIES	¾" NPT or M25 x 1.5 mm	■	
Approvals			
ATEX / IEC	Gas - Ex d IIC T4 Gb Dust - Ex ib IIIC Tx Db	■	
	Gas - Ex ia IIC T4 Ga Dust - Ex ia IIIC T130° Db		■
UL	Class I, Div 1, Group B, C, D	■	■
CSA	Class I, Div 1, Group B, C, D	■	■
SAFETY INTEGRITY LEVEL	SIL 2	■	■

*Sensor-dependent