PrimaX Gas Transmitter

Versatile Gas Detection to Meet Your Needs





Because every life has a purpose...



Ease of use, versatility and reliability

The new modular style

The new PrimaX gas transmitter offers proven MSA quality and reliability, SIL 2 certification, HART digital communication option and is available in flameproof or intrinsically safe versions. Innovative enclosure design, ease of use, fast installation and being suitable for both indoor and outdoor installations makes the PrimaX transmitter your choice for versatile gas detection.

PrimaX I

Intrinsically safe to detect toxic gases or oxygen



- Robust, anti-static, reinforced nylon housing (IP 66)
- Integral mounting plate for quick and easy installation



- Large easy-to-read LCD display
- Menu, gas concentration and error messages displayed in plain text



Plug-in replacement sensor Quick-release connector



- 4-20 mA output signal and SIL 2
- HART digital communication option









Dependability

• Versatile and reliable monitoring Innovative modular design for the detection of combustible gases, toxic gases or oxygen.

Simplicity

• Easy to use

The large display with clear plain text provides information at a glance and the additional LEDs (PrimaX P only) give a clear status indication.

- Easy installation
- Installation is simple and secure with the integral mounting plate. • Easy calibration
- Calibration is easily performed using the built-in keypad.

Adaptability

• Communication interfaces 4–20 mA output signal and 2 relay option. For configuration, calibration and

4–20 mA output signal and 2 relay option. For configuration, calibration and diagnostics there is also the optional HART digital communication.

- Plug-in replacement sensors Plug-in connector design allows an easy and rapid sensor replacement, simplifying routine maintenance.
- Accessories

The wide range of accessories suits the majority of industrial applications. These include a flow cap, a duct mount kit and a pipe mounting kit.

Economics

• Uncompromising value The PrimaX features and specification combine to offer the value and performance expected from MSA.





Technical Specifications

SensorsImage: constraint of the sensor of the s	DESCRIPTION	Values	PrimaX P	PrimaX I
Oxygen & ToxicElectrochemicalIPerformanceIITypical response time*IIISensor operating life*Up to 3 yeas in clean airIIOperating remperature*-40 °C (t- 47 °C (t- 40 °C t) 160 °F)IIIOperating pressure range09-120 kPaIIIIOperating pressure range09-120 kPaIIIIISupply voltage192 to 28 VDC (24 VDC nominal)IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Sensors			
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Operating temperature*-40°C to +70°C (-40°F to +160°F)IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Typical response time*	$\tau_{90} \le 25$ sec. (O ₂) $\tau_{90} \le 20$ sec. (CO)	•	•
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Class III		Class II, Div. 1, Groups F, G; Class III		•
Other Approvals CSA, CMC, CCCF, EAC, INMETRO, HART registered, BG RCI		CSA, CMC, CCCF, EAC, INMETRO, HART registered, BG RCI		•
Safety Integrity Level SIL 2	Safety Integrity Level	SIL 2		•

MSA**safety**.com



MSA

7 % LEL

Applications

PrimaX gas transmitters are suitable for many industrial applications:

- Agriculture, fertilisers
- Construction
- Storage of hazardous materials
- Laboratory
- Utilities
- OGP
- Chemical plants

- General industry
- Power plants
- Steel plants
- Car industry
- Waste water
- Food and beverages
- Various industrial applications

PrimaX P

Flameproof to detect combustible gases, toxic gases or oxygen



- Powder coated aluminium enclosure (IP 67)
- Integral mounting plate for quick and easy installation



- Easy menu navigation using the integrated 4-way keypad
- Large easy to read LCD display and 3 LED status indicators



3 or 4-wire connection Plug-in replacement sensor



- 4–20 mA output signal and SIL 2 certification
- HART digital communication and 2 relay option





Gases, Options & Accessoires

Description	PrimaX P	PrimaX I
Gases and Ranges		
Methane (100% LEL)		_
Propane (100% LEL)		-
Oxygen (25%, 10%)		
Hydrogen Sulphide H_2S (10, 20, 50,100 ppm)		
Carbon Monoxide CO (100, 200, 500, 1000 ppm)		
Ammonia NH ₃ (50, 100, 500, 1000 ppm)		
Chlorine Cl₂ (5, 10 ppm)		
Sulphur Dioxide SO_2 (10, 20, 50, 100 ppm)		
Hydrogen Cyanide HCN (10, 20, 30, 50 ppm)		
Hydrogen Chloride HCl (10, 20, 30 ppm)		
Hydrogen H ₂ (1000 ppm)	-	
Nitrogen Dioxide NO ₂ (10, 20, 100 ppm)		
Nitric Oxide NO (100 ppm)		
Options		
HART		
Relays	-	-
Galvanic isolated output		-
Accessories		
Flow adapter		
Pipe mount kit		
Sensorgard		
Calibration cap		
Sunshield	•	
Sensor tag	•	
CalGard remote calibration adapter		
Duct Mounting Kit	•	
HART Cable		

For details please contact your local MSA representative.

Your direct contact

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L Subject to change without notice ID 07-710.2 UK/02

____ For contact details of your local MSA affiliate, please visit our website.

