

GasScanner

Fixed Gas Detection Series



**MATHESON
TRI-GAS**

ask. . .The Gas Professionals™

GasScanner 1C

Single Channel Wall Mount Controller

Features

- Low cost versatile solution
- Compact, weatherproof, NEMA 4X enclosure
- 115/220 VAC
- Long life sensors (2+ years typical)
- Audible alarm with reset button
- Built-in trouble alarm with relay
- Relay rating 10 amps, form C
- Provides 4-20 mA output
- Accepts sensors for LEL, O₂, H₂S, CO, and CO₂ as well as toxic sensors*
- Two programmable alarm levels
- Accepts any 4-20 mA transmitter
- cCSAus Electrical Approval

The GasScanner 1C is a powerful, low cost fixed system controller for one point of gas detection. It is microprocessor controlled, versatile, simple to install and operate, and priced to be the industry's best value single gas detection controller. It is capable of accepting Matheson Tri-Gas sensors for LEL level combustibles, Oxygen, CO₂, Corrosives, and Toxic gases.* The GasScanner 1C can also accept any 4-20 mA transmitters (2 or 3 wires, 24 VDC). Sensors can be mounted directly at the GasScanner 1C housing, or can be wired remote from the controller. The 10 amp rated relay contacts are strong enough to directly control external alarms and horns. The digital display has backlighting and simultaneous readout of the gas type and concentration.

The Gas Scanner 1C is also housed in a NEMA 4X rated case for a weather tight seal. This case design complies with lock out / tag out standards and can be fully secured. An external reset switch allows the alarm to be silenced from outside of the controller housing. Gas



GS-1C

Scanner 1C ships complete with a wall mounting kit for easy installation. Matheson Tri-Gas offers the industry's widest selection of standard and toxic gas detection sensors, which can be utilized with the Gas Scanner 1C, providing gas-monitoring protection for almost any application.

Ordering Information

Model No.

GS-1C

* See Sensor list for available gases

GasScanner 2C

2 Channel Wall Mount Controller

Features

- Easy to install, operate and expand
- Compact, weatherproof, NEMA 4X enclosure
- 115/220 VAC
- Long life sensors (2+ years typical)
- Audible alarm with reset button
- Built-in trouble alarm with relay
- Relay rating 10 amps, form C
- Provides 4-20 mA output
- Accepts sensors for LEL, O₂, H₂S, CO, and CO₂ as well as toxic sensors*
- Two alarm levels per channel, discrete and common relays
- Simultaneous readout on 2 channels
- cCSAus Electrical Approval

The GasScanner 2C is a powerful, two point, low cost fixed system controller that is microprocessor controlled, versatile, and simple to install and operate. It is capable of connecting Matheson Tri-Gas sensors directly for LEL level combustibles, Oxygen and Toxic Gases.* The GasScanner 2C can also accept any 4-20 mA transmitters (2 or 3 wires, 24 VDC). Sensors can be mounted directly at the GasScanner 2C housing, or wired remotely from the controller. The digital display has backlighting capabilities and simultaneous readouts of the gas type and concentration. Matheson Tri-Gas offers the industry's widest selection of standard and toxic gas detection sensors, which can be utilized with the GasScanner 2C, providing gas monitoring protection for almost any application.

The 10 amp rated relay contacts are strong enough to directly control external alarms and horns. The digital display has backlighting and simultaneous readout of the channel, gas type, and concentration.

* See Sensor list for available gases



GS-2C

The Gas Scanner 2C is housed in a NEMA 4X rated case for a weather tight seal. This case design complies with lock out / tag out standards and can be fully secured. An external reset switch allows the alarm to be silenced from outside of the controller housing. Gas Scanner 2C ships complete with a wall mounting kit for easy installation.

Ordering Information

Model No.

GS-2C

GasScanner 4C

4 Channel Wall Mount Controller

Features

- Simultaneously monitor up to 4 channels
- Compact, weatherproof, NEMA 4X enclosure
- 115/220 VAC
- Long life sensors (2+ years typical)
- Audible alarm with reset button
- Built-in trouble alarm with relay
- Relay rating 10 amps, form C
- Accepts sensors for LEL, O₂, H₂S, CO, and CO₂, as well as toxic sensors*
- Digital display of all 4 channels
- 3 programmable alarm levels per channel, discrete and common relays
- cCSAus Electrical Approval

The GasScanner 4C is a highly configurable, microprocessor-based, flexible 4 channel gas monitor that simultaneously displays the gas type, readings, and status for 4 channels of gas detection. It can monitor any combination of sensors (LEL combustibles, oxygen, hydrogen sulfide, carbon monoxide, and carbon dioxide) as well as any 4-20mA transmitters.* Each channel has 3 fully configurable alarm points. Each channel also has 2 dedicated fully configurable relays and there is a bank of common relays as well. The common relays can optionally be configured as additional channel relays allowing up to 3 alarm relays per channel. A built-in silenceable audible alarm alerts you to alarm conditions. Each channel provides a 4-20mA output signal. A Min-Max feature retains high & low peak readings for review at any time. Zero-follower automatically compensates for sensor drift.

The 10 amp rated relay contacts are strong enough to directly control external alarms and horns. The digital display has backlighting and simultaneous readout of the channel, gas type, and concentration.



GS-4C

The Gas Scanner 4C is housed in a NEMA 4X rated case for a weather tight seal. This case design complies with lock out / tag out standards and can be fully secured. An external reset switch allows the alarm to be silenced from outside of the controller housing. Gas Scanner 4C ships complete with a wall mounting kit for easy installation. Easy to install, operate and expand.

Ordering Information

Model No.

GS-4C

* See Sensor list for available gases

GasScanner 8C

8 Channel Wall Mount Controller

Features

- Affordable and versatile
- Capable of up to 8 separate channels
- Digital display of all 8 channels simultaneously
- 115/220 VAC
- Relay rating 3 amps, form C
- NEMA 4X enclosure
- Common alarm and fail relays
- Long life sensors (2+ years typical)
- Audible alarm with reset button
- Accepts sensors for LEL, O₂, H₂S, CO, and CO₂, as well as toxic sensors*
- Two programmable alarm levels per channel
- Accepts any 4-20 mA transmitter
- cCSAus Electrical Approval

The GasScanner 8C is a simplified, versatile, low cost fixed system controller for one to eight points of gas monitoring. It is microprocessor controlled and is capable of accepting up to 8 separate 4-20 mA sensor transmitters, which can be either 2 or 3 wire. The GasScanner 8C is powered by 115 /220VAC.

The 2 large digital displays have backlighting and easily identify both the gas type and the gas concentration for all 8 channels simultaneously.

The GasScanner 8C is also housed in a NEMA 4X rated case for a weather tight seal. This case design complies with most lock out / tag out standards and can be fully secured. The bottom mounted wiring hubs allow for easy wiring for the sensor transmitters, power, and alarm relay contacts.



GS-8C

Ordering Information

Model No.

GS-8C

* See Sensor list for available gases

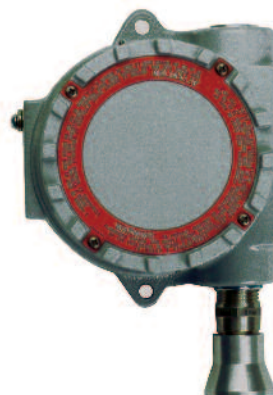
GSS Series

GasScanner Sample Diffusion Transmitters

Features

- Explosion Proof Housing Class 1, Div 1, Group B, C, & D
- Available for LEL, O₂, CO, H₂S
- Infrared sensors available for combustibles and CO₂
- Special CO sensor without H₂ interference available as an option
- Cost effective
- 24 VDC operation
- LEL Sensors – UL approved. CO, H₂S, O₂ – cCSAus Electrical Approval

The GSS Series Gas Scanner Diffusion Transmitters are highly reliable and very cost effective for the detection of common gas hazards. The GSS Series Transmitters are available for LEL, O₂, H₂S, CO and for various fuels or solvents. These detector assemblies are rated for for Class1, Div. 1 Group B, C & D atmospheres. The only tools required to calibrate the GSS Series are a voltmeter, a screwdriver, and a cylinder of calibration gas. Field calibrations can be performed easily and quickly by one person. The GSS Series



GSS Series

Diffusion Transmitters are ideal for either indoors or outdoors. The flame arrestor utilizes a patented water repellent coating. Splashguards are also available for use in very wet environments. The transmitters operate from 24 VDC (10.5 DC to 30 VDC), and provide a 4-20 mA signal that can be connected to a wide variety of controllers.

Ordering Information

Model No.	Description
GSS-C2H2	ACETYLENE, 100% LEL, Diffusion Transmitter
GSS-C4H6	BUTADIENE, 100% LEL, Diffusion Transmitter
GSS-C4H10	BUTANE, 100% LEL, Diffusion Transmitter
GSS-CO2	CARBON DIOXIDE, 5000 ppm, Diffusion Transmitter
GSS-CO	CARBON MONOXIDE, 300 ppm, Diffusion Transmitter
GSS-D2	DEUTERIUM, 100% LEL, Diffusion Transmitter
GSS-DSLFL	DIESEL FUEL, 100 % LEL, Diffusion Transmitter
GSS-ETHNL	ETHANOL, 100% LEL, Diffusion Transmitter
GSS-FLOL	FUEL OIL, 100% LEL, Diffusion Transmitter
GSS-GASLN	GASOLINE, 100% LEL, Diffusion Transmitter
GSS-C6H14	HEXANE, 100% LEL, Diffusion Transmitter
GSS-H2	HYDROGEN, 100% LEL, Diffusion Transmitter
GSS-H2S	HYDROGEN SULFIDE, 100 ppm, Diffusion Transmitter
GSS-C4H10	ISOBUTANE, 100% LEL, Diffusion Transmitter
GSS-C4H8	ISOBUTYLENE, 100% LEL, Diffusion Transmitter
GSS-ISPRPNL	ISOPROPANOL, 100 % LEL, Diffusion Transmitter
GSS-CH4	METHANE, 100% LEL, Diffusion Transmitter
GSS-MTHNL	METHANOL, 100% LEL, Diffusion Transmitter
GSS-CH4NG	NATURAL GAS, 100% LEL, Diffusion Transmitter
GSS-O2	OXYGEN, 0-25%, Diffusion Transmitter
GSS-C5H12	PENTANE, 100% LEL, Diffusion Transmitter
GSS-C3H8	PROPANE, 100% LEL, Diffusion Transmitter
GSS-C3H6	PROPYLENE, 100% LEL, Diffusion Transmitter

GSK Series

GasScanner Sample Draw Transmitters

Features

- Digital display (LED) for gas concentration
- Sensor information and calibration is stored within sensor memory
- Long life sensors
- Zero suppression and correction
- Smaller housing design for narrow wall mounting locations
- Self-diagnostic functions by microprocessor
- Electrochemical sensors for wide selection of toxic gases
- Built-in sampling pump
- Easy replacement of pump and sensor
- Two alarm levels, plus trouble alarm with relays
- 24 VDC operation

The GSK Series is a complete sample drawing gas monitor, including digital readout and alarm relays. The GSK Series is equipped with a new smart gas sensor technology using an intelligent sensor for remote location calibration and setup. These new smart sensors also double calibration interval requirements to once a year, which equates to reduced maintenance cost. In



GSK Series

addition, the sensors can be calibrated away from the gas detector installation, for example in a service area or offsite. This eliminates the inconvenience of bringing calibration gases into the fab or monitoring location. GSK Series easily connects to existing GasScanner Control Boxes 1C- 8C or to PLC systems and is ideal for applications needing a local readout or a relay control for activating other devices.

Ordering Information

Model No.	Description
GSK-NH3	AMMONIA, 75 ppm, Sample Draw Transmitter
GSK-ASH3	ARSINE, 0.2 ppm, Sample Draw Transmitter
GSK-BCL3	BORON TRICHLORIDE, 5 ppm, Sample Draw Transmitter
GSK-BF3	BORON TRIFLUORIDE, 9 ppm, Sample Draw Transmitter
GSK-CO	CARBON MONOXIDE, 150 ppm, Sample Draw Transmitter
GSK-CL2	CHLORINE, 1.5 ppm, Sample Draw Transmitter
GSK-CLF3	CHLORINE TRIFLUORIDE, 0.6 ppm, Sample Draw Transmitter
GSK-B2H6	DIBORANE, 0.3 ppm, Sample Draw Transmitter
GSK-DCS	DICHLOROSILANE, 15 ppm, Sample Draw Transmitter
GSK-SI2H6	DISILANE, 15 ppm, Sample Draw Transmitter
GSK-F2	FLUORINE, 3 ppm, Sample Draw Transmitter
GSK-HBR	HYDROGEN BROMIDE, 9 ppm, Sample Draw Transmitter
GSK-HCL	HYDROGEN CHLORIDE, 15 ppm, Sample Draw Transmitter
GSK-HF	HYDROGEN FLUORIDE, 9 ppm, Sample Draw Transmitter
GSK-H2S	HYDROGEN SULFIDE, 30 ppm, Sample Draw Transmitter
GSK-NO2	NITROGEN DIOXIDE, 15 ppm, Sample Draw Transmitter
GSK-O3	OZONE, 0.6 ppm, Sample Draw Transmitter
GSK-PH3	PHOSPHINE, 1 ppm, Sample Draw Transmitter
GSK-SIH4	SILANE, DH SENSOR, 15 ppm, Sample Draw Transmitter
GSK-WF6	TUNGSTEN HEXAFLUORIDE, 9 ppm, Sample Draw Transmitter
GSK-NF3	NITROGEN TRIFLUORIDE, 30 ppm, With Pyrolyzer, Sample Draw Transmitter

GSM Series

GasScanner Stand Alone Diffusion Transmitters

Features

- Direct digital readout
- Monitors combustibles, H₂S, CO and O₂
- Catalytic and infrared option for LEL detection
- H₂ specific version available
- Operates independently or with any controller, PLC or DCS
- Non-intrusive calibration via magnetic wand
- 2 programmable alarm relays, plus fail relay
- Explosion proof housing
- UL version for LEL (standard)
- LEL Sensors – UL approved. CO, H₂S, O₂ – cCSAus Electrical Approval

The GSM Series is a state of the art transmitter that can operate as an independent, stand alone system or as part of a system connected with an analog signal to a GasScanner controller. The GSM Series detects LEL combustibles, O₂, H₂S, CO, and CO₂. These detector assemblies are rated for Class 1, Division 1, Group B, C and D atmospheres. It utilizes a magnetic wand technique for performing non-intrusive calibration. The GSM Series provides an automatic zero drift correction feature, which results in more stable readings and reduces the need for adjustments due to sensor aging.



GSM Series

The housing of the GSM does not need to be opened for zeroing or calibration, making it unnecessary to declassify the area for routine maintenance. It is designed so that a complete field calibration can be performed by one person. The stainless steel flame arrestor housing that covers the sensor (LEL, H₂S, or CO) is water repellent with a special patented water resistant coating.

Ordering Information

Model No.	Description
GSM-C2H2	ACETYLENE, 100% LEL, Diffusion Transmitter
GSM-C4H6	BUTADIENE, 100% LEL, Diffusion Transmitter
GSM-C4H10	BUTANE, 100% LEL, Diffusion Transmitter
GSM-CO2	CARBON DIOXIDE, 5000 ppm, Diffusion Transmitter
GSM-CO	CARBON MONOXIDE, 300 ppm, Diffusion Transmitter
GSM-D2	DEUTERIUM, 100% LEL, Diffusion Transmitter
GSM-DSLFL	DIESEL FUEL, 100 % LEL, Diffusion Transmitter
GSM-ETHNL	ETHANOL, 100% LEL, Diffusion Transmitter
GSM-FLOL	FUEL OIL, 100% LEL, Diffusion Transmitter
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GSM-O2	OXYGEN, 0-25%, Diffusion Transmitter
GSM-C5H12	PENTANE, 100% LEL, Diffusion Transmitter
GSM-C3H8	PROPANE, 100% LEL, Diffusion Transmitter
GSM-C3H6	PROPYLENE, 100% LEL, Diffusion Transmitter

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