

Safe area fixed gas detector – mains/DC powered For continuous monitoring of oxygen deficiency or toxic gases



Mains/DC-powered. Compact. Reliable.

- Plug-in replaceable electrochemical sensors
- RS232 communications output
- Contains two control relays
- Stand-alone detector with display
- Remote display unit with audible alarm

Description

The Model MGT14 fixed gas detectors provide reliable performance for workplace safety applications in non-hazardous areas where there is no risk of potentially explosive gases being present. The stand-alone detectors have a front panel LCD display and contain two control relays that can be activated by user definable alarm set points and used to control external equipment. The RS232 interface provides communication with a PC or DCS. A separate remote display unit provides additional visual indication and audible alarm.

The MGT14 detectors use mains or DC power supply voltage. The instrument housing includes one cable gland entry and one side entry for connection to the remote unit. The housing contains the connection terminals, electronics, and gas sensor.

Partial list of gases: oxygen, hydrogen sulfide, carbon monoxide, chlorine, nitrogen dioxide, ammonia, sulfur dioxide, nitric oxide, hydrogen chloride, ethylene oxide



Typical applications:

Applications	Gas hazard
Confined spaces	Oxygen deficiency
Swimming pools	Chlorine
Boiler rooms, car parks	Carbon monoxide
Breweries and cellars	Carbon dioxide
Food and beverage processing	Carbon dioxide
Building health management	Carbon dioxide
Greenhouses	Carbon monoxide, carbon dioxide, oxygen
Animal processing	Ammonia

Note: The MGT14 gas detectors must only be used in applications where there is no risk of potentially explosive gases being present or of them being created through industrial processes or other activities within the area.

MGT14

Safe area fixed gas detector – mains/DC powered

Specifications

Material	Composite (ABS and polycarbonate)
Cable entries	1 x M20 or ½" NPT or ¾" NPT (for mains input) 1 x M12 (for connection to remote unit)
Dimensions	122 x 122 x 75 mm (4.8 x 4.8 x 3.0 in)
Weights	MGT14 (excluding weather guard) – 900 grams (1.98 lbs.) Weather guard – 225 grams (0.5 lbs.)
Display	Local display on the enclosure front panel and on the remote unit
Gas types	Oxygen or toxic gases
Supply voltage	Mains version: 85 to 265VAC, 47 to 440 Hz DC version: 8 to 24VDC
Alarm set points	Two user adjustable set points (range dependent on the gas type)
Alarm relay outputs	Voltage free, single pole change-over contacts; user selectable for normally energized or normally de-energized operation
Alarm contact rating	1A, 30VDC non-inductive load
Communications output	RS232
Visual alarm indication	Flashing red LED on front panel and on the remote indicator unit
Audible alarm indication	Intermittent alarm tone on front panel and on remote indicator unit
Sensor type	Electrochemical
Measurement range	Dependent upon sensor type
Response time	Sensor response times vary according to the actual sensor
IP rating	Enclosure: IP66 Sensor: IP65
Operating temperature	-10°C to +40°C (14°F to 104°F)
Storage temperature	-20°C to +50°C (-4°F to 122°F)
Humidity range	0 to 95% RH non-condensing
Operating pressure	Atmospheric (± 10%)

Specifications are subject to change without notice.

Order Information

Description	Range	Sensor type	Stock No.
Oxygen detector, 4-20mA output	0-25%	electrochemical	SS808
Hydrogen sulfide, 4-20mA output	0-50ppm	electrochemical	SS810
Carbon monoxide, 4-20mA output	0-500ppm	electrochemical	SS811
Chlorine	0-20ppm	electrochemical	SS812
Ammonia	0-100ppm	electrochemical	SS813-100
Ammonia	0-1000ppm	electrochemical	SS813-1000
Ethylene oxide	0-100ppm	electrochemical	SS814
Sulfur dioxide	0-20ppm	electrochemical	SS815
Nitric oxide	0-100ppm	electrochemical	SS817
Nitrogen dioxide	0-20ppm	electrochemical	SS818
Hydrogen chloride	0-30ppm	electrochemical	SS819
Configuration unit with cable (P/N 2-0602004-74-0)			SS748



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