

CGM II 900 Series Multi-gas Monitor with ToxAlert™



4 gas monitor plus ToxAlert
(protection from hundreds of toxic gases)

AutoCal® calibration

Smart sensor technology

PTO connection for accessories
and data logging

Lifetime warranty

ToxAlert

Electrochemical sensors are standard in virtually all portable confined space monitors because they can identify specific known gases. However, in many environments such as sewers or storage vessels, unknown gases may be present. For protection in these cases, a broad range sensor is essential. The ToxAlert sensor literally protects you from hundreds of toxic gases with no false alarms. Today's CGM remains the only instrument to successfully combine the unique characteristics and benefits of both electrochemical and broadrange MOS sensors.

Worldwide Supplier of Gas Detection Solutions



GfG Instrumentation

The New Standard in Safety.

The CGM combines smart sensor technology with advanced electronics for a truly superior confined space instrument. The groundbreaking ToxAlert sensor, without false alarms, ensures you superior protection from hundreds of unknown toxic gases. The AutoCal feature simplifies and reduces the time required for calibration. With these key features and a power take off (PTO) port for data logging, an optional mini-pump, remote alarms and other useful accessories, the CGM provides you the protection and convenience you need.

A Misconception

It is true that the combustible sensor in conventional gas monitors will also detect most of the gases or vapors listed below. But the concentration levels at which these gases are combustible is usually far in excess to the level at which they pose a threat to health. Some extremely dangerous gases such as trichloroethylene are not combustible and would therefore never be detected.

The CGM's broad range ToxAlert protects you from hundreds! Conventional toxic gas detectors can protect you from only two or three gases.

Acetic Acid	Cyclohexene	Flourotrichloro-	Isopropylamine	Nitrotoluene
Acetone	Dichlorobenzene	methane	LPG	Propyl Alcohol
Acrylonitrile	Dichloroethylene	Formaldehyde	Methanol	Styrene
Ammonia	Dimethylamine	Heptane	Methyl Acetate	Sulfur Dioxide
Benzene	Diisobutyl Ketone	Hexane	Methyl Alcohol	Tetrachloroethylene
Butanone (MEK)	Ethanolamine	Hexone	Methyl Chloride	Toluene
Butyl Acetate	Ethyl Acetate	Hydrogen Chloride	Methyl Chloroform	Trichloroethylene
Butyl Alcohol	Ethylamine	Hydrogen Cyanide	Methylene Chloride	Turpentine
Carbon Monoxide	Ethanol	Hydrogen Peroxide	Methyl Ketone	Vinyl Chloride
Carbon	Ethyl Chloride	Hydrogen Sulfide	Methyl Mercaptan	Xylene
Tetrachloride	Ethyl Ether	Isoamyl Acetate	Methyl Styrene	Xylidine
Chlorobenzene	Ethyl Mercaptan	Isobutyl Alcohol	Naphthalene	...and dozens more
		Isopropyl Alcohol	Nitropropane	



What does OSHA think about broadrange sensors?

"Where the employer has already identified (atmospheric) hazards, substance-specific sensors are preferable, because they accurately indicate the concentrations of identified air contaminants. By contrast, where the employer has not been able to identify the specific atmospheric hazards present or potentially present in a sewer, **broadrange sensors are preferable** because they indicate that the hazardous threshold of a class (or classes) of contaminants (i.e. hydrocarbons) in the sewer have been exceeded."

—1993 Confined Space Standard:
29CFR1910.146 Appendix E

Technical Data

CGM 900 Multi-Gas Monitor

Gases

EX	Combustible gases LEL
OX	Oxygen (O ₂) % volume
TOX	Carbon Monoxide (CO)
	Hydrogen Sulfide (H ₂ S)
ToxAlert	Broad Range

Ranges

EX	CH ₄	0 to 100% LEL
OX	O ₂	0 to 25% volume
TOX	CO	0 to 500 ppm
	H ₂ S	0 to 100 ppm
ToxAlert	MOS	0 to 20

Detection Principles (sensors)

EX	catalytic combustion
OX	electrochemical
TOX	electrochemical
ToxAlert	metal oxide sensor (MOS)

Response Time

4 to 30 seconds depending on type of gas

Expected Sensor Life

OX, TOX, ToxAlert	2 years
EX	1 year

Gas Supply

Diffusion/sampling pump (optional)

Display

Auto-backlight, graphic alpha-numeric display

Operation

Touch keys for On/Off, Auto-zeroing, peak values, TWA and STEL readings, pump/display functions

Alarms

Visual—red LED, flashing gas readings
Audible—buzzer

Operational Time

8 to 12 hours (depending on sensors, alarms and sampling time)

Power Source

Rechargeable NiMH battery pack

Temperature Range

+25 to +110 °F (-4 to +44 °C) continuous
0 to +120 °F (-18 to +49 °C) intermittent

Casing

RF resistant, reinforced carbon fiber

Weight and Dimensions

18 oz (504g)
3.5 x 6.2 x 1.8 inches (WxHxD)
(90 x 199 x 60 mm)

Approvals

UL Class I, Groups A B C D

Accessories/Options

Hi-lite, high intensity alarm
Mini-sample pump
Hand aspirator
Dosimeter PC program and cable
Protective soft carrying case
Easy-to-grip rubber boot
12V DC charger

Specifications subject to change without notification

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