

# G450 Multi-gas Detector

## Exceptional Confined Space Performance



- Compact and robust 1-to-4 sensor design
- Full 3-year warranty on **all sensors**
- Interchangeable battery packs for up to **25 hours** of continuous operation
- Motorized pump operable in diffusion or sample-draw mode
- Highly water resistant (IP 67)
- O<sub>2</sub>, H<sub>2</sub>S, CO, and combustible gases
- Extra large, invertible, heterochromatic display
- Rotating 360° bright, flashing alarms
- Loud 103 dB buzzer



Worldwide manufacturer of gas detection solutions

 **GfG Instrumentation**

# G450 Series

## Watertight design

The compact and lightweight 4-gas detector continuously measures CO, H<sub>2</sub>S, O<sub>2</sub>, and combustibles in ambient air. It's functional and watertight design (IP 67) incorporates an impact proof, rubberized housing to meet the toughest requirements of harsh environments.

## Easy operation

This lightweight device simplifies ease of use with only three, menu driven soft touch keys. A large full graphic display provides accurate readings of all sensors at a glance.

## Long life sensors

Factory calibrated sensors assure accurate readings. The extended sensor life reduces the cost of ownership. Sensors come with a three year warranty.

## Operation time

Depending on the frequency and duration of alarms, the device will operate for up to 25 hours. With its rechargeable NiMh battery pack, recharging time is reduced to only 4 hours for a full charge.

## Perfect alarm system

An extremely loud audible alarm (105 dB at 30 cm) and bright, rotating alarm lights provide a reliable warning from gas hazards. Depending on alarm status, the display changes color from green to orange or red. Battery status and readiness of operation are permanently monitored and displayed. Critical conditions will cause an immediate alarm. TLV, TWA, and STEL values are continuously monitored. A vibrating alarm gives an extra degree of protection in loud environments.

## Sampling pump

A detachable, self powered pump is available for sampling confined spaces prior to entry. A flow alarm is triggered in the event of insufficient flow to the monitor caused by blocked or bent tubing.

## Data logger

The data logger records gas concentrations and alarms over a period of 50 hours. The data can be downloaded to a PC for viewing, storing, and evaluation.

## Easy reading

The large, high resolution top display can be flipped 180° by pressing two buttons - this allows easy viewing while detector is being worn on a belt, pocket, or lapel.



Pump

## Interchangeable battery packs

Rechargeable NiMh or alkaline battery cartridges are easily interchangeable in the field, allowing the user to choose the best choice for their application. The intelligent electronics automatically recognize the type of battery pack installed, allowing the level of charge to be displayed accurately.

# Technical Data

## G450 gas monitor

### Cases / warranty

EX	Combustible gases	3 years
OX	Oxygen (O <sub>2</sub> )	3 years
TOX	Carbon monoxide (CO)	3 years
	Hydrogen sulfide (H <sub>2</sub> S)	3 years
	COSH (dual channel CO and H <sub>2</sub> S sensor)	3 years

### Ranges / resolution

EX	CH <sub>4</sub>	0 to 100% LEL	0.5%
	CH <sub>4</sub>	0 to 5% volume	0.05%
OX	O <sub>2</sub>	0 to 25% volume	0.1%
TOX	CO	0 to 300 ppm	1 ppm
	H <sub>2</sub> S	0 to 100 ppm	1 ppm
	COSH CO (0 to 300 ppm) and H <sub>2</sub> S (0 to 100 ppm)		1 ppm

### Operational time

Up to 25 hours

### Charge time

4 hours with rechargeable NiMh cartridge

### Power source

2 "AA" batteries or rechargeable NiMh battery cartridge

### Temperature range

-20 to 50°C (-4° to +122°F) ambient  
5 to 95% RH (non-condensing)

### Alarms

Audible 105 dB at 30 cm (restrictable to 95 dB)  
Visual bright, rotating 360° LED's, plus heterochromatic backlit display  
Vibrating alarm

### Sensor warranty

Three years

### Expected sensor lifetime

EX	CH <sub>4</sub>	3-5 years
OX	O <sub>2</sub>	3 years
TOX	CO	up to 4 years
	H <sub>2</sub> S	up to 3 years
	COSH	3 years

### Casing

IP 67 (dust and highly water resistant)

### Accessories

Self powered detachable sample pump (run-time is up to 30 hours)  
Data logging kit  
Spare battery cartridges (alkaline or rechargeable)  
NiMh battery cartridge with optional LED flashlight

### Weight and dimensions

10.8 ounces / .62 pounds / 280 grams

### Dimensions

4.4x2.6x2 inches (11.8x66x50.8 mm) (HxWxD)

### Approvals

ATEX II 2G EEx ia d IIC T4/T3 (NiMh)

*Specifications subject to change without notification*

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