

# G450 Multi-gas Detector

## Exceptional Confined Space Performance



- Compact and robust 1 to 4 sensor design
- Interchangeable battery packs for up to **25 hours** of continuous operation
- Full 3-year warranty on **all sensors**
- Highly water resistant (IP 67)
- Optional motorized pump operates in diffusion or sample-draw mode



**GLOBAL CONTROL C.A.**  
Av. Bolivar Norte C.C. Camoruco  
Piso 15 Ofic 15-8 Valencia  
Telf. 0241-8244157 /8212318  
email: [info@globalcontrol.com.ve](mailto:info@globalcontrol.com.ve)  
[www.globalcontrol.com.ve](http://www.globalcontrol.com.ve)



# G450 Series

## Continuously measures up to four gas hazards

The **G450 Confined Space Gas Detector** continuously measures up to four hazards (CO, H<sub>2</sub>S, O<sub>2</sub> and percent LEL combustible gas) in air.

## Water resistant design

The **G450** is compact, robust and very easy-to-use. The dust proof and highly water resistant (IP-67) housing is designed to survive the toughest environmental conditions. The housing even includes a built-in rubberized boot to withstand the hard knocks of confined space entry.

## Three year warranty on all sensors

Dependable and accurate **G450** sensors keep the cost-of-ownership down. All sensors – including O<sub>2</sub>, LEL combustible, CO and H<sub>2</sub>S sensors – carry a full three year warranty from the date of purchase.

## Easy operation

The **G450** keeps gas detection simple. Most day-to-day functions are controlled with a single button, and calibration is fully automatic. Simply attach the adapter and flow gas to the sensors. GfG AutoCal® programming automatically makes the adjustments, and updates the information in the instrument's on-board memory.

## Up to 25 hours continuous operation

**G450** battery packs deliver up to 25 hours of continuous operation. Alkaline packs are powered by two "AA" batteries, Rechargeable battery packs can be completely recharged in less than four hours in the drop-in cradle charger. Rechargeable battery packs can even be equipped with optional "flash light" LEDs.

## Loud audible and bright visual alarms warn users of dangerous conditions

The **G450** includes an extremely loud audible alarm (103 dB at 12 inches), built-in vibrator and bright wrap-around LED alarm lights *visible from every direction*. The top-mounted display changes color from green, to orange to red *just like a traffic signal* to help communicate the severity of the hazardous condition.

## Top-mounted display easy to read even in the dark

Whether it's worn on your belt or held by hand, the **G450** is easy to read. The top-mounted, full graphics LCD includes a built-in backlight for use in the dark. Readings can be "zoomed" or "flipped" at the push of a button to make it even easier to see your monitoring results.

## Motorized sampling pump

The field attachable motorized pump is powered by its own alkaline or rechargeable battery pack. The powerful diaphragm pump is equipped with an on / off shutter that allows the instrument to be used in diffusion mode *even while the pump is attached*.



G450 with pump

## Datalogger

All **G450** instruments are equipped with datalogging. The datalogger records gas concentrations and alarms on a moment-to-moment basis. Monitoring results can be downloaded to a PC for viewing, storage and evaluation.

## Accessories

Each **G450** comes complete with sensors and battery pack (as specified), calibration adapter, manual and training DVD. Rechargeable instruments additionally include a drop-in cradle charger and wall power adapter.

# Technical Data

## G450 gas monitor

### Gases

Combustible gases (% LEL)  
Oxygen (O<sub>2</sub>)  
Carbon monoxide (CO)  
Hydrogen sulfide (H<sub>2</sub>S)

### Detection range and resolution

LEL	0-100% LEL	0.5%
CH <sub>4</sub>	0-5% volume	0.05%
O <sub>2</sub>	0-25% volume	0.1%
CO	0-300 ppm	1.0 ppm
H <sub>2</sub> S	0-100 ppm	0.2 ppm

### Expected sensor lifetime

LEL	3 years
O <sub>2</sub>	3 years
CO	3 years or longer
H <sub>2</sub> S	3 years or longer

### Datalogging: included standard

1,890 intervals (55 hours at 2 min int.); additionally stores events, calibration history and other information

### Operational time

Up to 25 hours (with either type battery pack)

### Charge time

4 hours with rechargeable NiMh battery pack and smart charger

### Power source

2 "AA" batteries or rechargeable NiMh battery pack

### Temperature range

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

### Alarms

Vibrator alarm: standard  
Audible: 103 dB at 30 cm  
Visual: Bright, 360° wraparound LED's, plus heterochromatic (green / orange / red) backlit display

### Housing

IP-67 (dust proof and highly water resistant)

### Accessories

Datalogging kit  
Self powered attachable motorized sample pump  
Spare battery packs (alkaline or rechargeable)  
Rechargeable (NiMh) battery pack with optional LED flashlight

### Weight

0.62 pounds (280 g)

### Dimensions

4.4x2.6x2 inches (66x11.8x50.8 mm) (HxWxD)

### EMI / RFI resistance

Complies with EMC Directive 89/336/EEC

**Intrinsic Safety:** c-CSA-us Classified as Intrinsically Safe for use in Class I, Division 1, Group A, B, C and D Hazardous Locations; Temp Code T3

### Warranty

Limited lifetime on instrument and electronics; three years from date of purchase for all sensors

*Specifications subject to change without notification*

Distributed by:



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[www.globalcontrol.com.ve](http://www.globalcontrol.com.ve)



**GfG Instrumentation**

Tel: (800) 959-0329 or (734) 769-0573  
Fax: (734) 769-1888  
E-mail: [info@gfg-inc.com](mailto:info@gfg-inc.com)  
Website: [www.gfg-inc.com](http://www.gfg-inc.com)

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