

# G450

## The World's Most Advanced Confined Space Gas Detector



## G450 Multi-gas Detector



- Compact and robust 1-to-4 sensor design
- Full 3-year warranty on **all sensors**
- Interchangeable battery packs for up to 25 hours continuous operation
- **Now with INMETRO Certification!**

- Motorized pump operable in diffusion or sample-draw mode
- Highly water resistant (IP 67)
- **Affordable price!**

**GfG Instrumentation**

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# G450 Multi-gas Detector

## 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.

## Datalogging Standard

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.

## 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 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*.



## Accessories

Each **G450** comes complete with sensors and battery pack (as specified), calibration adapter, and a manual. Rechargeable instruments additionally include a drop-in cradle charger and wall power adapter. The DS400 Docking Station offers completely automatic functional testing, calibration, instrument charging and record keeping.



## Specifications

### Ranges & Resolution for Sensors

Carbon monoxide (CO)	0 - 500 ppm	1 ppm
Hydrogen sulfide (H <sub>2</sub> S)	0 - 100 ppm	0.1 ppm
Oxygen (O <sub>2</sub> )	0 - 25 % vol	0.1 %/vol
LEL	0 - 100% LEL	0.5 LEL
CH <sub>4</sub>	0 - 5 % vol	0.02 %/vol

### Expected Sensor Life

Carbon monoxide (CO)	3 years or longer
Hydrogen sulfide (H <sub>2</sub> S)	3 years or longer
Oxygen (O <sub>2</sub> )	3 years
LEL	3 years
Unfiltered LEL	2 years

### Datalogging: Included

1,890 intervals (55 hours at 2 minutes). Also stores events, calibration history and other information.

### Other Specification

Dimensions:	2.95x4.33x2.17 in (75x110x55 mm)
Weight:	10 oz (280 g)
Power:	2 "AA" batteries or rechargeable NiMH battery pack
Operation time:	Up to 25 hours

Charge Time:	8 hours
Alarms:	Vibrating: Standard Audible: 103 db (30 cm) Visual: Bright, 360° wraparound LEDs, plus heterochromatic (green / orange / red) backlit display
Housing:	IP-67 (dust proof and highly water resistant)
Temperature range:	-4 to +122°F (-20 to +50°C) ambient
Humidity range:	5 to 95% r.h. (non-condensing)
Pressure Range:	700 to 1,300 hPa

### Standard Accessories

Charger (if specified)  
Calibration Adapter  
Manual  
Informational CD

### Optional Accessories

Pump, 10 feet of tubing and probe  
Datalogging kit  
Docking Station  
Calibration gas, kits and regulators

### Approvals

Intrinsic safety: c-CSA-US  
Class I, Division 1, Groups A, B, C, and D T3  
Ex ia IIC T3  
Class I, Zone 0 AEx ia IIC T3  
Ex da ia IIC T3 Ga -20 ≤ Ta ≤ +50 °C T3  
07.1934905  
Standards: IEC 60079-0:2011 (Ed.6)  
IEC 60079-1:2014 (Ed.7)  
IEC 60079-11:2011 (Ed.6)  
CSA C22.2 No. 152-M 1984  
UL 913  
ANSI / ISA-12.13.01-2000

EMI / RFI Resistance: EMC Directive 89 / 336 / EEC  
INMETRO: Ex da ia IIC T3 Ga  
(-20 °C ≤ Tamb ≤ +50 °C)

MSHA Approved version available

### Warranty

Limited lifetime on instrument and electronics. Three years on all sensors including LEL\*, O<sub>2</sub>, CO and H<sub>2</sub>S.

\* Two year warranty on unfiltered LEL sensor.

Refer to GfG complete warranty for details

*Specifications subject to change without notification*

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