

# 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



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. Its 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 ensure 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 (103 dB at 30 cm) and bright, rotating alarm lights provide a reliable warning for 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.

## Datalogger

The datalogger 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.

# G450 gas monitor Technical Data

### Gases

Combustible gases (CH<sub>4</sub>)  
Oxygen (O<sub>2</sub>)  
Carbon monoxide (CO)  
Hydrogen sulfide (H<sub>2</sub>S)  
COSH (dual channel CO and H<sub>2</sub>S sensor)

### Detection range and resolution

|                  |   |       |
|------------------|---|-------|
| CH <sub>4</sub>  | 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 ppm |
| H <sub>2</sub> S | 0-100 ppm                                       | 1 ppm |
| COSH             | CO (0-300 ppm) and H <sub>2</sub> S (0-100 ppm) | 1 ppm |

### Expected sensor lifetime

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

### 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

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

### Alarms

Audible - 103 dB at 30 cm (restrictable to 95 dB)  
Visual - Bright, rotating 360° LED's, plus heterochromatic backlit display  
Vibrating alarm

### Casing

IP 67 (dust and highly water resistant)

### Accessories

Datalogging kit  
Self powered detachable sample pump (run-time is up to 25 hours)  
Spare battery cartridges (alkaline or rechargeable)  
Rechargeable (NiMh) battery cartridge with optional LED flashlight

### Weight

.62 pounds (280 g)

### Dimensions

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

**Rating and certifications** (intrinsic safety)  
ATEX II 2G EEx ia d IIC T4/T3 (NiMH)

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*Specifications subject to change without notification*