

# G460

## The World's Most Advanced Multi-sensor Atmospheric Monitor



## G460 Multi-gas Detector



- Exceptional **HAZMAT** and **Confined Space** performance
- Up to **6 channels** of detection, including...
- **PID sensor** for direct reading of toxic VOCs
- **Infrared (IR) sensors** for CO2 and combustible gas (0 % LEL - 100% volume)
- Full **3-year warranty** on O<sub>2</sub>, Combustible, CO, H<sub>2</sub>S and CO<sub>2</sub> sensors

- Wide range of additional sensors including SO<sub>2</sub>, HCN, Cl<sub>2</sub>, NH<sub>3</sub>, PH<sub>3</sub>, H<sub>2</sub>, NO, NO<sub>2</sub>, ClO<sub>2</sub>, O<sub>3</sub>, ETO *and more!*
- Highly configurable **smart sensor** design
- Full featured, rugged design
- Optional motorized pump operable in diffusion or sample draw mode
- **Affordable price!**

Öä dā cāā  
0200 c!} æi } æQ&  
ÚUÁO[ cÁ JI ÁÁÓ^T [ æÉDÁÎ HFÉ  
ì €€ì GÈGHÁG FJÈì Èì G  
æÁG FJÈì Èì G ÁÁ æ^•O æ& æB {

## GfG Instrumentation

1194 Oak Valley Dr, Ste 20, Ann Arbor MI 48108 USA  
(800) 959-0329 • (734) 769-0573 • www.gfg-inc.com

# G460 Multi-gas Detector

## Continuously measures up to six gas hazards

The durable **G460** continuously measures and displays readings for up to six gases at the same time.

## Durable, compact design

The **G460** 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.

## Widest range of sensors

**G460** detectors are available for use with a wide range of long-lasting, interchangeable smart-sensors for LEL, O<sub>2</sub>, H<sub>2</sub>S, CO, NH<sub>3</sub>, SO<sub>2</sub>, Cl<sub>2</sub>, PH<sub>3</sub>, NO<sub>2</sub>, HCN, ETO, ClO<sub>2</sub>, HF, O<sub>3</sub>, NO and H<sub>2</sub>. As well as PID (photoionization detectors) for the measurement of volatile organic chemical (VOC) hazards and Infrared (NDIR) sensors for the direct measurement of CO<sub>2</sub> and combustibles.

## Easy operation

The G460 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.

## Lifetime warranty

The **G460** carries a lifetime warranty on nonconsumable components and a two-year warranty on most sensors. O<sub>2</sub>, LEL, H<sub>2</sub>S, CO, COSH and infrared sensors carry a full three-year warranty against failure.

## Up to 25 hrs. continuous operation

Depending on the sensors installed, **G460** 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.



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

Whether it's worn on your belt or held by hand, the **G460** 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.

## Audible and visual alarms

The **G460** 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.

## 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 **G460** comes complete with sensors and battery pack (as specified), cal adapter and manual. Rechargeable instruments 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 select sensors

|  |               |            |
|--|---------------|------------|
| Ammonia (NH <sub>3</sub> )                       | 0 - 500 ppm   | 5 ppm      |
| Carbon dioxide (CO <sub>2</sub> )                | 0 - 5 % vol   | 0.01 % vol |
| Carbon monoxide (CO)                             | 0 - 300 ppm   | 1 ppm      |
| Chlorine (Cl <sub>2</sub> )                      | 0 - 10 ppm    | 0.1 ppm    |
| Chlorine dioxide (ClO <sub>2</sub> )             | 0 - 2 ppm     | 0.01 ppm   |
| Combustible (Catalytic)                          | 0 - 100 % LEL | 0.5 %      |
|  | 0 - 5 % vol   | 0.05 %     |
| Combustible (Infrared)                           | 0 - 100 % LEL | 0.5 %      |
|  | 0 - 100 % Vol | 0.5 % vol  |
| Ethylene oxide (C <sub>2</sub> H <sub>4</sub> O) | 0 - 20 ppm    | 0.1 ppm    |
| Hydrogen (H <sub>2</sub> )                       | 0 - 2,000 ppm | 2 ppm      |
| Hydrogen chloride (HCl)                          | 0 - 30 ppm    | 0.2 ppm    |
| Hydrogen cyanide (HCN)                           | 0 - 50 ppm    | 0.5 ppm    |
| Hydrogen fluoride (HF)                           | 0 - 10 ppm    | 0.1 ppm    |
| Hydrogen sulfide (H <sub>2</sub> S)              | 0 - 100 ppm   | 0.2 ppm    |
| Nitric oxide (NO)                                | 0 - 100 ppm   | 1 ppm      |
| Nitrogen dioxide (NO <sub>2</sub> )              | 0 - 50 ppm    | 0.2 ppm    |
| Oxygen (O <sub>2</sub> )                         | 0 - 25 % vol  | 0.1 %/vol  |
| Ozone (O <sub>3</sub> )                          | 0 - 1 ppm     | 0.01 ppm   |
| Phosgene (COCl <sub>2</sub> )                    | 0 - 2 ppm     | 0.01 ppm   |
| Phosphine (PH <sub>3</sub> )                     | 0 - 10 ppm    | 0.05 ppm   |
| PID (VOC)  | 0 - 2,000 ppm | 0.5 ppm    |
|  | 0 - 500 ppm   | 0.1 ppm    |
| Silane (SiH <sub>4</sub> )                       | 0 - 40 ppm    | 0.1 ppm    |
| Sulphur dioxide (SO <sub>2</sub> )               | 0 - 10 ppm    | 0.1 ppm    |

### Other Specifications

|                     |   |
|---------------------|---|
| Dimensions:         | 2.95x4.33x2.17 in (75x110x55 mm)  |
| Weight:             | 10 oz (280 g) w/O <sub>2</sub> /LEL/CO/H <sub>2</sub> S<br>14 oz (380 g) above w/IR, CO <sub>2</sub> or PID   |
| Power:              | 2 "AA" or rechargeable NiMH pack  |
| Operation time:     | 24 hrs continuous operation with LEL and toxic sensors; up to 18 hours with IR combustible, IR CO <sub>2</sub> or PID                                 |
| Charge time:        | 8 hours   |
| Alarms:             | Vibrating: Standard<br>Audible: 103 db (30 cm)<br>Visual: Bright, 360° wraparound LEDs, plus heterochromatic (green / orange / red) backlight display |
| Housing:            | IP-67 (dust proof and highly water resistant)   |
| Temperature range:  | -4 to +131°F (-20 to +55°C)   |
| Humidity range:     | 5 to 95% r.h. (non-condensing)  |
| Pressure Range:     | 700 to 1,300 hPa  |
| Intrinsic safety:   | c-CSA-us Class I, Div. 1, Groups A, B, C, D Temperature Code T3   |
| EMI/RFI resistance: | EMC Directive 89/336/EEC  |

### Datalogging

Standard on all instruments

- Records gas readings
- Gas alarms
- Zero Point Adjustments and calibrations.
- Full datalogging functionality (1,650 logged intervals)

### Optional Accessories

Motorized pump  
Datalogging kit  
Docking Station  
Calibration gas, kits and regulators

### Warranty

Limited lifetime on instrument and electronics. Two years on most sensors, three years on select sensors including O<sub>2</sub>, LEL (Catalytic), LEL (IR), CO, H<sub>2</sub>S and IR CO<sub>2</sub>.

Refer to GfG complete warranty for details

Specification subject to change without notification

Distributed by:

Oada caa

EOAc!} a} aQ&

UUAOI cAJI AAO T [ c EO A I HF E

i eEi GEGHACFJBi i E i G

-a/C FJBi i E i G A A a • O a& qE {



## GfG Instrumentation

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

Ver. 8 (Jun 2010)