

# 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 CO<sub>2</sub> 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, THT and more!
- Highly configurable smart sensor design
- Full featured, rugged design
- Optional motorized pump operable in diffusion or sample draw mode
- Affordable price!

**GfG Instrumentation**

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# 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 - 200	ppm	1	ppm
Carbon dioxide (CO <sub>2</sub> )	0 - 5	% vol	0.01	% vol
Carbon monoxide (CO)	0 - 300	ppm	1	ppm
COSH (CO)	0 - 500	ppm	1	ppm
(H <sub>2</sub> S)	0 - 100.0	ppm	0.5	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	0.02	%
Combustible (Infrared)	0 - 100%	LEL	0.2	%
	0 - 100	% vol	0.01	% 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	0.1	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 - 10,000	ppm	5.0	ppm
	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	0.05	ppm
Tetrahydrothiophene (THT)	0 - 100	mg/m <sup>3</sup>	0.1	mg/m <sup>3</sup>

### 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 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:	6 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 +131°F (-20 to +55°C)
Humidity range:	5 to 95% r.h. (non-condensing)
Pressure Range:	700 to 1,300 hPa

### Datalogging

- Standard on all instruments
- Records gas readings
  - Gas alarms
  - Zero Point Adjustments and calibrations.
  - Full datalogging functionality (1,700 logged intervals)

*Specification subject to change without notification*

### Optional Accessories

- Motorized pump
- 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 db eb ia IIC T3/T4 Gb (NiMH=T3) -20 ≤ Ta ≤ +45 / +50 °C  
08.1934905X
- Standards: IEC 60079-0:2011 (Ed.6)  
IEC 60079-7:2015 (Ed.5)  
IEC 60079-1:2014 (Ed.7)  
IEC 60079-11:2011 (Ed.6)  
CSA C22.2 No. 152-M1984  
UL 913  
ANSI / ISA-12.13.01-2000
- EMI / RFI Resistance: EMC Directive 89 / 336 / EEC

### 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

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## GfG Instrumentation

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