G460

The World's Most Advanced Multi-sensor Atmospheric Monitor

G460

Multi-gas Detector

CSA®

- 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_2, Combustible, CO, H_2S and CO_2 sensors

- Wide range of additional sensors including SO_2, HCN, Cl_2, NH_3, PH_3, H_2, NO, NO_2, ClO_2, O_3, 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_2, H_2S, CO, NH_3, SO_2, Cl_2, PH_3, NO_2, HCN, ETO, ClO_2, HF, O_3, NO and H_2. 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_2 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. O2, LEL, H2S, 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 (NH₃)	0 - 200	ppm	1	ppm
Carbon dioxide (CO2)	0 - 5	% vol	0.01	% vol
Carbon monoxide (CO)	0 - 300	ppm	1	ppm
Chlorine (Cl₂)	0 - 10	ppm	0.1	ppm
Chlorine dioxide (ClO₂)	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 (C₂H₄O)	0 - 20	ppm	0.1	ppm
Hydrogen (H₂)	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 (H₂S)	0 - 100	ppm	0.1	ppm
Nitric oxide (NO)	0 - 100	ppm	1	ppm
Nitrogen dioxide (NO₂)	0 - 50	ppm	0.2	ppm
Oxygen (O₂)	0 - 25	% vol	0.1	%/vol
Ozone (O₃)	0 - 1	ppm	0.01	ppm
Phosgene (COCL₂)	0 - 2	ppm	0.01	ppm
Phosphine (PH₃)	0 - 10	ppm	0.05	ppm
PID (VOC)	0 - 2,000 ppm		0.5	ppm
	0 - 500	ppm	0.1	ppm
Silane (SiH₄)	0 - 40	ppm	0.1	ppm
Sulphur dioxide (SO₂)	0 - 10	ppm	0.05	ppm
Tetrahydrothiophene (THT)	0 - 100 mg/m³		0.1	mg/m³

Other Specifications

Dimensions:	2.95x4.33x2.17 in (75x110x55 mm)
Weight:	10 oz (280 g) w/O₂/LEL.CO/H₂S 14 oz (380 g) above w/IR, CO₂ 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 CO₂ 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
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 (1,700 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 O2, LEL (Catalytic), LEL (IR), CO, H2S and IR CO2.

Refer to GfG complete warranty for details

Specification subject to change without notification

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