





# YOUR SAFETY IS NOT A BUSINESS, IT IS OUR RESPONSIBILITY

GfG Instrumentation is a world leader for gas detection and measurement technology. For over 60 years GfG has specialized in developing and producing the safest and most reliable equipment and sensors available. Offering an extensive range of portable monitors, fixed systems, and respiratory air monitors, GfG provides diverse solutions for toxic, explosive, and oxygen gas detection.

Products are developed by a team of highly qualified scientists of various disciplines, engineers and technicians, working in cooperation with leading research institutions, bringing practice and theory together.

GfG equipment is used in a wide variety of applications and industries including automotive, chemical industries, landfills, steel industries, hospitals, mining, public utilities, food processing, research institutes, universities, cannabis, and wherever the protection of life and property is needed.

Supporting a worldwide sales and distribution network, GfG Instrumentation has established facilities around the world in the United States, Germany, England, France, Austria, Poland, Sweden, South Africa, Singapore, and Switzerland.

## *Our Mission*

*GfG Instrumentation is committed to the protection of life and property by developing and producing the safest and most reliable gas detection equipment available, and to continuously make improvements through constant attention to customer expectations and advancing industry standards.*

Specially trained engineers and technicians form a team for consulting, planning, installing and servicing before, during, and after the sale to assist the customer in making the best decision.

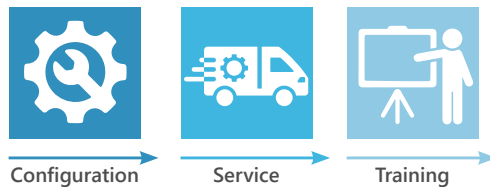
Specific training is offered for users to become qualified with the operation and maintenance of the equipment to ensure the highest performance and deliver uncompromising safety, reliability, and convenience in the workplace.



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## GfG - Providing World Class Support...

- **Engineering and Technical Support**
- **Sales and Distribution Network**
- **Marketing Support Services**



## *We can help you select the right product*

If you're not exactly sure which technology you need for your application, our skilled sales representatives are ready to assist you with your configuration to make sure your environment and people are safe.

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### Additional Price Catalogs Available:

**Engineered Fixed Systems**

**Fixed Transmitters**

**Fixed Controllers**

**MSHA Approved Products**

**RAM Products**

**MS Excel Format**

# Product Selection Guide



## Features

	SingleGas	DualGas	MultiGas				Respiratory Airline	
	Micro IV	G222E	G450	G460	G888	G999	RAM 744	RAM
Number of gases	1	1 - 2	1 - 4	1 - 7	1 - 7	1 - 7	1	1 - 2
Water resistant			•	•	•	•		
Datalogging	•	•	•	•	•	•		
Event logging	•		•	•				
Wireless (RF) interface					•	•		
Man down alarm					•	•		
Runtime (hours)	3,000 hrs	2,160 hrs	24 hrs	24 hrs	24 hrs	24 hrs	1,008 hrs	N/A
Battery options	Alkaline	Alkaline	NiMH & Alkaline	NiMH & Alkaline	NiMH	NiMH	110 V AC w/ power pack & 9V	110 & 220 V AC
Interchangeable battery pks			•	•				
Docking station available	•	•	•	•	•	•		
Attachable motorized pump	Optional		Optional	Optional		Integrated		
Instrument with pump operable in diffusion mode	•		•	•		•		
Diffusion mode	•	•	•	•	•	•		
Size (inches)	3.5x1.9x1	1.9x3.3x1.3	4.4x2.6x2	4.4x2.6x2	2.7x4x1.5	2.7x5x1.5	7.5x2.25	7.3x5.9x4
Weight	2 - 3 oz.	4.76 oz.	9.9 oz.	9.9 oz.	9.7 oz.	13.9 oz.	1.15 lb.	5 lb.

## Gases

	SingleGas	DualGas	MultiGas				Respiratory Airline	
	Micro IV	G222	G450	G460	G888	G999	RAM	RAM 4021
Oxygen (O <sub>2</sub> )	•	•	•	•	•	•		•
Combustible (LEL)			•	•	•	•		
Carbon Monoxide (CO)	•	•	•	•	•	•	•	•
Hydrogen Sulfide (H <sub>2</sub> S)	•	•	•	•	•	•		
Ammonia (NH <sub>3</sub> )	•	•		•	•	•		
Carbon Dioxide (CO <sub>2</sub> )				•	•	•		
Chlorine (Cl <sub>2</sub> )	•	•		•	•	•		
Chlorine Dioxide (ClO <sub>2</sub> )	•	•		•	•	•		
Dew Point (DP)								•
Ethylene Oxide (C <sub>2</sub> H <sub>4</sub> O or	•	•		•	•	•		
Fluorine (F <sub>2</sub> )	•							
Hydrogen (H <sub>2</sub> )	•	•		•	•	•		
Hydrogen Chloride (HCl)	•	•		•	•	•		
Hydrogen Cyanide (HCN)	•	•		•	•	•		
Hydrogen Fluoride (HF)	•	•		•	•	•		
Methane (CH <sub>4</sub> )			•	•	•	•		
Methyl Mercaptan/THT	•	•		•	•	•		
Nitric Oxide (NO)	•	•		•	•	•		
Nitrogen Dioxide (NO <sub>2</sub> )	•	•		•	•	•		
Ozone (O <sub>3</sub> )	•	•		•				
Phosgene (COCl <sub>2</sub> )	•	•		•	•	•		
Phosphine (PH <sub>3</sub> )	•	•		•	•	•		
Photoionization Detector				•		•		
Silane (SiH <sub>4</sub> )	•	•		•	•	•		
Sulfur Dioxide (SO <sub>2</sub> )	•	•		•	•	•		

Images are not to scale

# Micro IV

## Single-gas Detector



CH<sub>3</sub>SH, Cl<sub>2</sub>, ClO<sub>2</sub>, CO, COCl<sub>2</sub>, ETO, H<sub>2</sub>, HCl, HCN, HF, H<sub>2</sub>S, NH<sub>3</sub>, NO, NO<sub>2</sub>, O<sub>2</sub>, O<sub>3</sub>, PH<sub>3</sub>, SiH<sub>4</sub>, SO<sub>2</sub>

The Micro IV is compact, robust and very easy to use. It is designed to be used in the harshest environments. The Micro IV includes a set of rubber boots to withstand hard knocks and drops.

The Micro IV keeps gas detection simple. Most day-to-day functions are controlled with a single button, and calibration is fully automatic. The Micro IV delivers up to 3,000 hours of continuous operation from a single off the shelf AA alkaline battery.

The Micro IV carries a lifetime warranty on non-consumable components and two or more years of warranty on most sensors. Select sensors such as O<sub>2</sub>, H<sub>2</sub>S and CO carry a full three year warranty.

### Standard Accessories:

- Micro IV detector
- Specified sensor
- Alkaline battery
- Rubber boot
- Manual

### Value Kit Configuration:

- All standard accessories
- Calibration adapter
- Calibration gas
- Fixed flow regulator
- ABS carrying case

### Optional Accessories:

- Sample draw pump
- Docking station
- Hand aspirated pump
- Calibration adapter
- Data download station

### Features:

- Highly configurable smart sensor design
- Full 3-year warranty on O<sub>2</sub>, CO and H<sub>2</sub>S sensors
- Event / Datalogging standard
- Programmable ceiling (3), STEL & TWA alarms
- AutoCal® automatic calibration

## Instrument Pricing

### 3-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price	
				Instrument Only*	Value Kit add "K" to part number
1418-022	Oxygen (O <sub>2</sub> )	0.1% vol.	0 - 25% vol.	\$ 525.00	\$ 1,085.00
1418-027	Carbon monoxide (CO) Standard	1 ppm	0 - 300 ppm	\$ 540.00	\$ 1,095.00
1418-103	Carbon monoxide (CO-H) Reduced H <sub>2</sub> sensitivity	1 ppm	0 - 300 ppm	\$ 630.00	\$ 1,185.00
1418-106	Carbon monoxide (CO-H) Reduced H <sub>2</sub> sensitivity	1 ppm	0 - 500 ppm	\$ 630.00	\$ 1,185.00
1418-107	Carbon monoxide (CO)	1 ppm	0 - 1,000 ppm	\$ 530.00	\$ 1,085.00
1418-108	Carbon monoxide (CO)	1 ppm	0 - 2,000 ppm	\$ 540.00	\$ 1,095.00
1418-024	Hydrogen sulfide (H <sub>2</sub> S) Standard	0.1 ppm	0 - 100.0 ppm	\$ 540.00	\$ 1,200.00
1418-111	Hydrogen sulfide (H <sub>2</sub> S)	1 ppm	0 - 500 ppm	\$ 540.00	\$ 1,200.00

\* Does not include calibration adapter P/N 7770-201C.

# Micro IV

## Single-gas Detector



### Instrument Pricing continued

#### 2-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price	
				Instrument Only*	Value Kit add "K" to part number
1418-153	Chlorine (Cl <sub>2</sub> )	0.1 ppm	0 - 10.0 ppm	\$ 825.00	\$ 1,625.00
1418-118	Chlorine dioxide (ClO <sub>2</sub> )	0.01 ppm	0 - 2.00 ppm	\$ 1,115.00	-
1418-122	Ethylene oxide (C <sub>2</sub> H <sub>4</sub> O)	0.1 ppm	0 - 20.0 ppm	\$ 655.00	-
1418-130	Hydrogen (H <sub>2</sub> )	2 ppm	0 - 2,000 ppm	\$ 590.00	\$ 1,145.00
1418-131	Hydrogen (H <sub>2</sub> )	0.01%	0 - 1.00% vol.	\$ 830.00	\$ 1,385.00
1418-132	Hydrogen (H <sub>2</sub> )	0.01%	0 - 4.00% vol.	\$ 830.00	\$ 1,390.00
1418-120	Hydrogen cyanide (HCN)	0.5 ppm	0 - 50.0 ppm	\$ 655.00	\$ 1,500.00
1418-116	Nitrogen dioxide (NO <sub>2</sub> )	0.2 ppm	0 - 50.0 ppm	\$ 640.00	\$ 1,465.00
1418-115	Nitric oxide (NO)	1 ppm	0 - 100 ppm	\$ 575.00	-
1418-330	Phosphine (PH <sub>3</sub> )	0.05 ppm	0 - 10.00 ppm	\$ 830.00	-
1418-114	Sulfur dioxide (SO <sub>2</sub> )	0.05 ppm	0 - 10.00 ppm	\$ 640.00	\$ 1,340.00

#### 1-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price	
				Instrument Only*	Value Kit add "K" to part number
1418-170	Ammonia (NH <sub>3</sub> )	1 ppm	0 - 200 ppm	\$ 895.00	\$ 1,695.00
1418-500	Ammonia (NH <sub>3</sub> )	5 ppm	0 - 500 ppm	\$ 875.00	\$ 1,675.00
1418-143	Fluorine (F <sub>2</sub> )	.01 ppm	0 - 10 ppm	\$ 830.00	\$ 1,630.00
1418-126	Hydrogen fluoride (HF)	0.1 ppm	0 - 10.0 ppm	\$ 930.00	\$ 1,720.00
1418-121	Hydrogen chloride (HCl)	0.2 ppm	0 - 30.0 ppm	\$ 930.00	\$ 1,720.00
1418-220	THT / Methyl Mercaptan (CH <sub>3</sub> SH)	0.1 ppm	0 - 25 ppm	\$ 1,140.00	-
1418-165	Ozone (O <sub>3</sub> )	0.01 ppm	0 - 1.00 ppm	\$ 905.00	-
1418-123	Silane (SiH <sub>4</sub> )	0.05 ppm	0 - 40.00 ppm	\$ 1,415.00	-

#### 6-Month Sensor Warranty

Part Number	Sensors	Resolution	Range	Price	
				Instrument Only*	Value Kit add "K" to part number
1418-125	Phosgene (COCl <sub>2</sub> )	0.01 ppm	0 - 2.00 ppm	\$ 1,065.00	-

\* Does not include calibration adapter P/N 7770-201C.

# Micro IV Single-gas Detector



## Docking Stations

Part Number	Description	Price
1419-204	DI220 Single Micro IV calibration and data download station (includes cable and software). Requires fixed flow regulator with on/off knob and tubing	\$ 745.00

DI220  
P/N 1419-204



## Calibration Kits and Accessories

Part Number	Description	Price
7776-020	Calibration Kit. Includes carrying case, 0.5 lpm fixed flow regulator (34 L steel cylinders), calibration adapter and tubing	\$ 450.00
7776-025	Calibration Kit. Includes carrying case, 0.5 lpm fixed flow regulator for inside thread cylinders (Aluminum and 103 L steel cylinders), calibration adapter and tubing	\$ 450.00
7776-026	Calibration Kit. Includes carrying case, 1.0 lpm fixed flow regulator for reactive gases (Cl <sub>2</sub> , ClO <sub>2</sub> , ETO, HCl, HF, O <sub>3</sub> ), calibration adapter and tubing	\$ 450.00
2603-020	Regulator, 0.5 lpm fixed flow with pressure gauge and on/off knob for cylinders with outside thread (34 L steel)	\$ 285.00
2603-025	Regulator, 0.5 lpm fixed flow with pressure gauge and on/off knob for cylinders with inside thread (aluminum & 103 L steel). Not for use with chlorine reactive gases (Cl <sub>2</sub> , ClO <sub>2</sub> , ETO, HCl, HF, O <sub>3</sub> )	\$ 285.00
2603-026	Regulator, 1.0 lpm fixed flow with pressure gauge and on/off knob for cylinders with inside thread (aluminum & 103 L steel). Required for use w/reactive gases chlorine (Cl <sub>2</sub> , ClO <sub>2</sub> , ETO, HCl, HF, O <sub>3</sub> )	\$ 285.00
1419-216	Demand Flow Regulator for disposable cylinders with inside thread (aluminum and 103 L steel)	\$ 450.00
1419-217	Demand Flow Regulator for disposable cylinders with outside thread (34 L steel)	\$ 450.00
7770-201C	Calibration Adapter with tubing	\$ 70.00
7770-223	Calibration Adapter with tubing for non-reactive gases	\$ 30.00
1318214	Rubber Boot (top and bottom)	\$ 30.00
1418-EXT6	Extended 6-year sensor warranty (O <sub>2</sub> , H <sub>2</sub> S and CO)	\$ 145.00

## Remote Sampling

Part Number	Description	Price
1318-911	Motorized Sample Draw Pump with tubing and wand	\$ 625.00
7711-004	Manual Hand Aspirator with tubing and wand	\$ 175.00

## Replacement Sensors

### 3-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1460231	Oxygen (O <sub>2</sub> )	0.1% vol.	0 - 25% vol.	\$ 210.00
1460232	Carbon monoxide (CO) - Standard	1 ppm	0 - 300 ppm	\$ 275.00
1460235	Carbon monoxide (CO)	1 ppm	0 - 1,000 ppm	\$ 275.00
1460018	Carbon monoxide (CO)	1 ppm	0 - 2,000 ppm	\$ 275.00
1460233	Carbon monoxide (CO-H) Reduced H <sub>2</sub> sensitivity	1 ppm	0 - 300 ppm	\$ 305.00
1460261	Carbon monoxide (CO-H) Reduced H <sub>2</sub> sensitivity	1 ppm	0 - 500 ppm	\$ 305.00
1460235M	Carbon monoxide (CO-H) Reduced H <sub>2</sub> sensitivity	1 ppm	0 - 1,000 ppm	\$ 305.00
1460236	Hydrogen sulfide (H <sub>2</sub> S) - Standard	0.1 ppm	0 - 100.0 ppm	\$ 275.00
1460111	Hydrogen sulfide (H <sub>2</sub> S)	1 ppm	0 - 500 ppm	\$ 275.00

# Micro IV Single-gas Detector



## Replacement Sensors continued

### 2-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1318245	Chlorine (Cl <sub>2</sub> )	0.1 ppm	0 - 10 ppm	\$ 625.00
1318154	Chlorine dioxide (ClO <sub>2</sub> )	0.01 ppm	0 - 2.00 ppm	\$ 810.00
1460262	Ethylene oxide(ETO) (C <sub>2</sub> H <sub>4</sub> O)	0.1 ppm	0 - 20.0 ppm	\$ 730.00
1460258	Hydrogen (H <sub>2</sub> )	2 ppm	0 - 2,000 ppm	\$ 695.00
1460260	Hydrogen (H <sub>2</sub> )	0.01% vol.	0 - 1.00% vol.	\$ 730.00
1460259	Hydrogen (H <sub>2</sub> )	0.01% vol.	0 - 4.00% vol.	\$ 730.00
1460255	Hydrogen cyanide (HCN)	0.5 ppm	0 - 50.0 ppm	\$ 430.00
1318238	Nitrogen dioxide (NO <sub>2</sub> )	0.2 ppm	0 - 50.0 ppm	\$ 430.00
1460338	Nitrogen dioxide (NO <sub>2</sub> )	0.02 ppm	0 - 30.00 ppm	\$ 430.00
1460151	Nitric oxide (NO)	1 ppm	0 - 100 ppm	\$ 590.00
1460242	Phosphine (PH <sub>3</sub> )	0.05 ppm	0 - 10.00 ppm	\$ 595.00
1460150	Sulfur dioxide (SO <sub>2</sub> )	0.05 ppm	0 - 10.00 ppm	\$ 420.00

### 1-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1460250	Ammonia (NH <sub>3</sub> )	1 ppm	0 - 200 ppm	\$ 550.00
1460500	Ammonia (NH <sub>3</sub> )	5 ppm	0 - 500 ppm	\$ 550.00
1318143	Fluorine (F <sub>2</sub> )	.01 ppm	0 - 10 ppm	\$ 625.00
1318264	Hydrogen fluoride (HF)	0.1 ppm	0 - 10.0 ppm	\$ 865.00
1460249	Hydrogen chloride (HCl)	0.2 ppm	0 - 30.0 ppm	\$ 805.00
1460220	THT / Methyl Mercaptan (CH <sub>3</sub> SH)	0.1 ppm	0 - 25 ppm	\$ 685.00
1318257	Ozone (O <sub>3</sub> )	0.01 ppm	0 - 1.00 ppm	\$ 820.00
1460243	Silane (SiH <sub>4</sub> )	0.05 ppm	0 - 40.00 ppm	\$ 1,160.00

### 6-Month Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1318248	Phosgene (COCl <sub>2</sub> )	0.01 ppm	0 - 2.00 ppm	\$ 950.00



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# G222E

## One to Two-gas Detector



$C_2H_4O$ ,  $Cl_2$ ,  $ClO_2$ ,  $CO$ ,  $COCl_2$ ,  $H_2$ ,  $HCl$ ,  $HCN$ ,  $HF$ ,  $H_2S$ ,  $NH_3$ ,  
 $NO$ ,  $NO_2$ ,  $O_2$ ,  $O_3$ ,  $PH_3$ ,  $SiH_4$ ,  $SO_2$

The G222E is the first device in GfG's Micro 5 series. At present, it is the smallest and at the same time one of the lightest one- to two-gas detectors with two electrochemical gas sensors (EC) in the world.

Equipped with high-quality, precise and durable sensors, the system is individually tailored to your requirements. Currently, sensors are available for 20 different gases and a wide array of measuring ranges. Combine them according to your requirements or increase the safety of your employees even further by redundant use of the same sensors to minimize the danger from a specific gas.

### Features:

- Highly configurable smart sensor design
- Full 5-year warranty on  $O_2$  (lead free), and 3-year on  $CO$  and  $H_2S$  sensors
- Event / Datalogging standard
- Programmable ceiling, STEL & TWA alarms
- AutoCal® automatic calibration

## Instrument Pricing - Single Sensor Configurations

### 5-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Instrument	Value Kit add "K" to part number
G222E-0300	Oxygen ( $O_2$ ) (4OXL Lead Free)	0.1% vol.	0 - 25% vol.	\$ 640.00	\$ 1,085.00

### 3-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Instrument	Value Kit add "K" to part number
G222E-0100	Carbon monoxide ( $CO$ )	1 ppm	0 - 500 ppm	\$ 645.00	\$ 1,090.00
G222E-3100	Carbon monoxide ( $CO$ )	1 ppm	0 - 1,000 ppm	\$ 645.00	\$ 1,090.00
G222E-5000	Carbon monoxide ( $CO$ )	1 ppm	0 - 2,000 ppm	\$ 645.00	\$ 1,090.00
G222E-0500	Hydrogen sulfide ( $H_2S$ )	1 ppm	0 - 100 ppm	\$ 645.00	\$ 1,180.00

### 2-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Instrument	Value Kit add "K" to part number
G222E-1200	Chlorine ( $Cl_2$ )	0.1 ppm	0 - 10.0 ppm	\$ 930.00	\$ 1,615.00
G222E-1400	Chlorine dioxide ( $ClO_2$ )	0.01 ppm	0 - 2.00 ppm	\$ 1,170.00	-
G222E-2600	Ethylene oxide ( $C_2H_4O$ )	0.1 ppm	0 - 20.0 ppm	\$ 825.00	\$ 1,510.00
G222E-3600	Hydrogen ( $H_2$ )	0.01%	0 - 1.00% vol.	\$ 1,035.00	\$ 1,480.00
G222E-3200	Hydrogen ( $H_2$ )	0.01%	0 - 4.00% vol.	\$ 1,035.00	\$ 1,480.00
G222E-2000	Hydrogen cyanide ( $HCN$ )	0.5 ppm	0 - 50.0 ppm	\$ 825.00	\$ 1,510.00
G222E-4100	Nitrogen dioxide ( $NO_2$ )	0.2 ppm	0 - 30.0 ppm	\$ 825.00	\$ 1,510.00
G222E-2300	Nitric oxide ( $NO$ )	1 ppm	0 - 100 ppm	\$ 795.00	\$ 1,480.00
G222E-2200	Phosphine ( $PH_3$ )	0.05 ppm	0 - 10.00 ppm	\$ 945.00	\$ 1,630.00
G222E-1000	Sulfur dioxide ( $SO_2$ )	0.05 ppm	0 - 10.00 ppm	\$ 795.00	\$ 1,330.00

# G222E

## One to Two-gas Detector



### Instrument Pricing - Single Sensor Configurations continued

#### 1-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Instrument and Kit Configuration	
				Instrument	Value Kit add "K" to part number
G222E-1600	Ammonia (NH <sub>3</sub> )	1 ppm	0 - 300 ppm	\$ 920.00	\$ 1,620.00
G222E-1800	Ammonia (NH <sub>3</sub> )	5 ppm	0 - 1,000 ppm	\$ 920.00	\$ 1,620.00
G222E-2700	Hydrogen fluoride (HF)	0.1 ppm	0 - 10.0 ppm	\$ 1,225.00	\$ 1,935.00
G222E-2100	Hydrogen chloride (HCl)	0.2 ppm	0 - 30.0 ppm	\$ 1,165.00	\$ 1,875.00
G222E-2800	Ozone (O <sub>3</sub> )	0.01 ppm	0 - 1 ppm	\$ 1,190.00	-
G222E-3500	Silane (SiH <sub>4</sub> )	0.05 ppm	0 - 20.00 ppm	\$ 1,555.00	\$ 2,265.00
G222E-3700	THT / Methyl Mercaptan (CH <sub>3</sub> SH)	0.1 ppm	0 - 25 ppm	\$ 1,195.00	\$ 1,905.00

#### 6-Month Sensor Warranty

Part Number	Sensors	Resolution	Range	Instrument	Value Kit
G222E-3900	Phosgene (COCl <sub>2</sub> )	0.01 ppm	0 - 2.00 ppm	\$ 1,310.00	-

### Instrument Pricing - Dual Sensor Configurations

Part Number	Sensors	Resolution	Range	Instrument and Kit Configuration	
				Instrument	Value Kit add "K" to part number
G222E-0301	Oxygen (O <sub>2</sub> ) 5-year and Carbon monoxide (CO) (500 ppm)			\$ 775.00	\$ 1,150.00
G222E-0305	Oxygen (O <sub>2</sub> ) 5-year and Hydrogen sulfide (H <sub>2</sub> S) (500 ppm)			\$ 775.00	\$ 1,350.00
G222E-0320	Oxygen (O <sub>2</sub> ) 5-year and Hydrogen cyanide (HCN) (50 ppm)			\$ 955.00	\$ 1,640.00
G222E-0120	Carbon monoxide (CO) (500 ppm) & Hydrogen cyanide (HCN) (0.50 ppm)			\$ 960.00	\$ 1,700.00
G222E-0105	Carbon monoxide (CO)(500 ppm) & Hydrogen sulfide (H <sub>2</sub> S)(500 ppm) (CO in kit is Aluminum)			\$ 780.00	\$ 1,350.00
G222E-2129	Hydrogen chloride (HCl) (30.0 ppm) & Hydrogen (H <sub>2</sub> ) (2000 ppm)			\$ 1,700.00	\$ 2,580.00
G222E-2132	Hydrogen chloride (HCl) (30.0 ppm) & Hydrogen (H <sub>2</sub> ) (4.00% vol.)			\$ 1,700.00	\$ 2,580.00
G222E-2732	Hydrogen fluoride (HF)(10.0 ppm) & Hydrogen (H <sub>2</sub> ) (4.00% vol.)			\$ 1,690.00	\$ 2,575.00
G222E-0510	Hydrogen sulfide (H <sub>2</sub> S) (500 ppm) and Sulfur dioxide (SO <sub>2</sub> ) (10 ppm)			\$ 805.00	\$ 1,635.00
G222E-2341	Nitric oxide (NO) (100 ppm) and Nitrogen dioxide (NO <sub>2</sub> ) (30 ppm)			\$ 1,110.00	\$ 2,005.00
G222E-0537	Hydrogen sulfide (H <sub>2</sub> S) (500 ppm) and THT / Methyl Mercaptan (CH <sub>3</sub> SH) (25 ppm)			\$ 1,550.00	\$ 2,075.00

### Replacement Sensors

#### 5-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1990718	Oxygen (O <sub>2</sub> ) (40XLF Lead Free)	0.1% vol.	0 - 25% vol.	\$ 215.00

#### 3-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1990705	Carbon monoxide (CO)	1 ppm	0 - 500 ppm	\$ 215.00
1990700	Hydrogen sulfide (H <sub>2</sub> S)	1 ppm	0 - 100 ppm	\$ 280.00

# G222E

## One to Two-gas Detector



### Replacement Sensors continued

#### 2-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1990725	Chlorine (Cl <sub>2</sub> )	0.1 ppm	0 - 10 ppm	\$ 630.00
1990730	Chlorine dioxide (ClO <sub>2</sub> )	0.01 ppm	0 - 2.00 ppm	\$ 815.00
1990775	Ethylene oxide(ETO) (C <sub>2</sub> H <sub>4</sub> O)	0.1 ppm	0 - 20.0 ppm	\$ 735.00
1990785	Hydrogen (H <sub>2</sub> )	2 ppm	0 - 2,000 ppm	\$ 700.00
1990790	Hydrogen (H <sub>2</sub> )	0.01% vol.	0 - 1.00% vol.	\$ 735.00
1990795	Hydrogen (H <sub>2</sub> )	0.01% vol.	0 - 4.00% vol.	\$ 735.00
1990760	Hydrogen cyanide (HCN)	0.5 ppm	0 - 50.0 ppm	\$ 435.00
1990750	Nitrogen dioxide (NO <sub>2</sub> )	0.2 ppm	0 - 30.0 ppm	\$ 435.00
1990745	Nitric oxide (NO)	1 ppm	0 - 100 ppm	\$ 595.00
1990770	Phosphine (PH <sub>3</sub> )	0.05 ppm	0 - 10.00 ppm	\$ 600.00
1990720	Sulfur dioxide (SO <sub>2</sub> )	0.05 ppm	0 - 10.00 ppm	\$ 425.00

#### 1-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1990735	Ammonia (NH <sub>3</sub> )	1 ppm	0 - 300 ppm	\$ 660.00
1990740	Ammonia (NH <sub>3</sub> )	5 ppm	0 - 1,000 ppm	\$ 660.00
1990765	Hydrogen fluoride (HF)	0.1 ppm	0 - 10.0 ppm	\$ 870.00
1990755	Hydrogen chloride (HCl)	0.2 ppm	0 - 30.0 ppm	\$ 810.00
1320815	Ozone (O <sub>3</sub> )	0.01 ppm	0 - 1 ppm	\$ 810.00
1990780	Silane (SiH <sub>4</sub> )	0.05 ppm	0 - 20.00 ppm	\$ 1,165.00
1990805	THT / Methyl Mercaptan (CH <sub>3</sub> SH) or Tetrahydrothiophene (C <sub>4</sub> H <sub>8</sub> S)	0.1 ppm	0 - 25 ppm	\$ 690.00

#### 6-Month Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1990800	Phosgene (COCl <sub>2</sub> )	0.01 ppm	0 - 2.00 ppm	\$ 955.00

### Calibration Kits and Accessories

Part Number	Description	Price
7771-222	Calibration Kit. Includes carrying case, 0.5 lpm fixed flow regulator (34 L steel cylinders), calibration adapter and tubing	\$ 410.00
7771-223	Calibration Kit. Includes carrying case, 0.5 lpm fixed flow regulator for inside thread cylinders (34 L Aluminum cylinders), calibration adapter and tubing	\$ 410.00
7771-224	Calibration Kit. Includes carrying case, 1.0 lpm fixed flow regulator for reactive gases (Cl <sub>2</sub> , ClO <sub>2</sub> , ETO, HCl, HF), (34 L Aluminum cylinders) calibration adapter and tubing	\$ 410.00
2603-020	Regulator, 0.5 lpm fixed flow with pressure gauge and on/off knob for cylinders with outside thread (34 L steel)	\$ 285.00
2603-025	Regulator, 0.5 lpm fixed flow with pressure gauge and on/off knob for cylinders with inside thread (aluminum & 103 L steel). Not for use with reactive gases (Cl <sub>2</sub> , ClO <sub>2</sub> , ETO, HCl, HF)	\$ 285.00
2603-026	Regulator, 1.0 lpm fixed flow with pressure gauge and on/off knob for cylinders with inside thread (aluminum & 103 L steel). Required for use w/reactive gases (Cl <sub>2</sub> , ClO <sub>2</sub> , ETO, HCl, HF)	\$ 285.00
1320250	Calibration cap for supplying zero and test gas	\$ 20.00
1320251	Calibration cap, IrDA-USB-Interface without USB cable for calibration and data transfer	\$ 200.00
1450600	USB Cable for datalogging, 6 foot, mini 5 pin for TS400 Test Station	\$ 35.00
1320252	Datalogging Kit for G222 (includes cable, calibration cap and software)	\$ 235.00

# G222E Configurator

## Part Number Calculator

Prefix	Board Type	Sensors				Options
		Sensor 1		Sensor 2		Kit
G222	E	-				

### The G222 "E" board supports:

- Electrochemical sensors EC1, EC2

## Board

### Board Type

E

## Sensors

Sensor	1†	2†	Add
Empty	00	00	\$ 0.00
CO (500)†	01	01	\$ 135.00
H <sub>2</sub> S (100)†	02	02	\$ 135.00
O <sub>2</sub> 5 yr (4OXLF)†	03	03	\$ 130.00
SO <sub>2</sub> (10)	10	10	\$ 285.00
Cl <sub>2</sub> (10)	12	12	\$ 420.00
ClO <sub>2</sub> (2)	14	14	\$ 660.00
NH <sub>3</sub> (300)	16	16	\$ 410.00
NH <sub>3</sub> (1,000)	18	18	\$ 410.00
HCN (50)	20	20	\$ 315.00
HCl (30)	21	21	\$ 655.00
PH <sub>3</sub> (10)	22	22	\$ 435.00
NO (100)	23	23	\$ 285.00
C <sub>2</sub> H <sub>4</sub> O (ETO) (20)	26	26	\$ 315.00
HF (10)	27	27	\$ 715.00
O <sub>3</sub> (1)	28	28	\$ 680.00
H <sub>2</sub> (2,000)	29	29	\$ 535.00
CO (1,000)	31	31	\$ 135.00
H <sub>2</sub> (4% vol.)†	32	32	\$ 525.00
SiH <sub>4</sub> (20)	35	35	\$ 1,045.00
H <sub>2</sub> (1% vol.)	36	36	\$ 525.00
COCl <sub>2</sub> (2)	39	39	\$ 800.00
THT (25)	40	40	\$ 685.00
NO <sub>2</sub> (30)	41	41	\$ 285.00
CO (2,000)	50	50	\$ 135.00

### Key for chart above:

† Standard version.

† Select sensors 1 & 2 in numeric order. Leave sensor empty if only one sensor is selected.

## Options

Kit Options	Add
Leave blank = None	\$ 0.00
K = Value Kit (add gas)**	\$ 395.00
S = Carrying Case	\$ 140.00

\*\*The kits for include a .5 lpm regulator, there is an additional charge if an additional regulator is required.

There is an additional charge for the calibration gas, which varies depending on the gas. See Calibration Gas pricing page to add applicable gas price.

Contact GfG for further assistance.

Please contact GfG for range, sensors or gases that are not listed.

## Price Calculator

Base (G222E)	Sensors		Options	Total
	Sensor 1	Sensor 2	Kit	
\$510				\$

GfG reserves the right to change part numbers, prices and/or technical information without notice. All rights reserved to correct typographical errors. All prices are listed in US dollars.



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# G450

## Multi-gas Detector



CO, H<sub>2</sub>S, LEL, O<sub>2</sub>



### Features:

- MSHA Approved G450 and Smart Pump are available in all 3 configurations (alkaline, rechargeable and flashlight rechargeable)
- Compact and robust 1 to 4 sensor design
- Interchangeable battery packs for up to 24 hours of continuous operation
- Three color back light for easy identification of alarm conditions
- Standard event and datalogging
- Bright, flashing LED alarm lights visible from 360°
- Optional built-in "flash light" LEDs
- Full 3-year warranty on all sensors\*
- Highly water resistant (IP 67)
- Optional motorized smart pump operates in diffusion or sample-draw mode

The G450 Gas Detector offers exceptional performance for an extremely affordable price. The G450 four sensor multi-gas detector is compact, durable and very easy to use. The H<sub>2</sub>S sensor offers 0.1 ppm resolution to comply with the latest TLV requirements. The G450 sensors are warranted for three full years, ensuring that the G450 has the lowest cost-of-ownership of any confined space gas detector on the market today. Replacement sensors carry the same three year warranty as the original sensors.

The G450 offers completely automatic calibration, one-button operation, top mounted display and interchangeable battery packs for up to 24 hours of continuous operation.

The optional motorized pump operates in diffusion and sample-draw modes, and can be easily attached or removed from the instrument when sampling needs change.

### Standard Accessories:

- G450 detector
- Specified sensors
- Charger (if specified)
- Calibration adapter & tubing
- Manual
- CD

### Value Kit Configuration:

- All standard accessories
- Calibration gas
- Fixed flow regulator
- ABS carrying case

### Optional Accessories:

- Pump with 10 ft of tubing and probe (if specified)
- Datalogging kit
- Docking station
- Test station
- Calibration gas, kits and regulators

### Confined Space Kit Configuration:

- All value kit accessories
- Rugged aluminum case (instead of ABS)
- Hand aspirated pump or motorized smart pump (as specified)
- Data download cable and software
- Spare alkaline battery
- Spare pump filters

### Bump Kit Configuration:

- All standard accessories
- T-8 Torx driver
- Push button regulator
- Bump test gas cylinder quad mix
- Carrying case

\* A vented O<sub>2</sub> sensor and unfiltered LEL sensor are available with a 2-year warranty

## Instrument Pricing

### Alkaline

Base Part Number**	Sensors*	Instrument and Kit Configuration			
		Instrument	Value Kit add "K" to part number	Confined Space Kit add "C" to part number	Bump Kit add "E" to part number
G450-10010	LEL	\$ 725.00	\$ 1,160.00	-	-
G450-11010	LEL, O <sub>2</sub>	\$ 790.00	\$ 1,225.00	-	-
G450-11110	LEL, O <sub>2</sub> , CO	\$ 880.00	\$ 1,315.00	-	-
G450-11210	LEL, O <sub>2</sub> , H <sub>2</sub> S	\$ 880.00	\$ 1,400.00	-	-
G450-11410	LEL, O <sub>2</sub> , CO, H <sub>2</sub> S	\$ 960.00	\$ 1,480.00	-	\$ 1,260.00

\* For sensor ranges and resolutions see Replacement Sensors.

\*\* For MSHA Approved instrument without a pump, use the table above but G450M-XXXXX as Base Part Number and add \$115.00 to the price.

# G450

## Multi-gas Detector



### Instrument Pricing continued

#### Rechargeable (Includes single charger)

Base Part Number**	Sensors*	Instrument and Kit Configuration			
		Instrument	Value Kit add "K" to part number	Confined Space Kit add "C" to part number	Bump Kit add "E" to part number
G450-10020	LEL	\$ 820.00	\$ 1,255.00	-	-
G450-11020	LEL, O <sub>2</sub>	\$ 880.00	\$ 1,320.00	\$ 1,485.00	-
G450-11120	LEL, O <sub>2</sub> , CO	\$ 970.00	\$ 1,410.00	\$ 1,575.00	-
G450-11420	LEL, O <sub>2</sub> , CO, H <sub>2</sub> S	\$ 1,055.00	\$ 1,575.00	\$ 1,765.00	\$ 1,435.00

#### Flashlight Rechargeable (Includes single charger)

Base Part Number**	Sensors*	Instrument and Kit Configuration			
		Instrument	Value Kit add "K" to part number	Confined Space Kit add "C" to part number	Bump Kit add "E" to part number
G450-11040	LEL, O <sub>2</sub>	\$ 945.00	\$ 1,380.00	\$ 1,545.00	-
G450-11140	LEL, O <sub>2</sub> , CO	\$ 1,035.00	\$ 1,470.00	\$ 1,635.00	-
G450-11440	LEL, O <sub>2</sub> , CO, H <sub>2</sub> S	\$ 1,115.00	\$ 1,635.00	\$ 1,825.00	\$ 1,495.00

\* For sensor ranges and resolutions see Replacement Sensors.

\*\* For MSHA Approved instrument without a pump, use the two tables above but G450M-XXXXX as Base Part Number and add \$115.00 to the price.

### Instrument with Smart Pump

#### Alkaline with Alkaline Smart Pump

Base Part Number**	Sensors*	Instrument and Kit Configuration			
		Instrument	Value Kit add "K" to part number	Confined Space Kit add "C" to part number	Bump Kit add "E" to part number
G450-10014	LEL	\$ 1,195.00	\$ 1,630.00	-	-
G450-11014	LEL, O <sub>2</sub>	\$ 1,260.00	\$ 1,695.00	-	-
G450-11114	LEL, O <sub>2</sub> , CO	\$ 1,350.00	\$ 1,785.00	-	-
G450-11214	LEL, O <sub>2</sub> , H <sub>2</sub> S	\$ 1,350.00	\$ 1,870.00	-	-
G450-11414	LEL, O <sub>2</sub> , CO, H <sub>2</sub> S	\$ 1,430.00	\$ 1,950.00	-	\$ 1,730.00

#### Rechargeable with Alkaline Smart Pump (Includes single charger)

Base Part Number**	Sensors*	Instrument and Kit Configuration			
		Instrument	Value Kit add "K" to part number	Confined Space Kit add "C" to part number	Bump Kit add "E" to part number
G450-11124	LEL, O <sub>2</sub> , CO	\$ 1,445.00	\$ 1,880.00	\$ 2,045.00	-
G450-11424	LEL, O <sub>2</sub> , CO, H <sub>2</sub> S	\$ 1,525.00	\$ 2,045.00	\$ 2,235.00	\$ 1,905.00

\* For sensor ranges and resolutions see Replacement Sensors.

\*\* For MSHA Approved instrument with Smart Pump, use the two tables above but G450M-XXXX7 as Base Part Number and add \$175.00 to the price.

# G450

## Multi-gas Detector



### Instrument Pricing continued

### Instrument with Smart Pump

### Flashlight Rechargeable with Alkaline Smart Pump (Includes single charger)

Base Part Number**	Sensors*	Instrument and Kit Configuration			
		Instrument	Value Kit add "K" to part number	Confined Space Kit add "C" to part number	Bump Kit add "E" to part number
G450-11044	LEL, O <sub>2</sub>	\$ 1,415.00	\$ 1,850.00	\$ 2,015.00	-
G450-11444	LEL, O <sub>2</sub> , CO, H <sub>2</sub> S	\$ 1,585.00	\$ 2,105.00	\$ 2,295.00	\$ 1,965.00

\*\* For MSHA Approved instrument with Smart Pump, use the table above but G450M-XXXX7 as Base Part Number and add \$175.00 to the price.

### Rechargeable with Rechargeable Smart Pump (Includes double charger)

Base Part Number**	Sensors*	Instrument and Kit Configuration			
		Instrument	Value Kit add "K" to part number	Confined Space Kit add "C" to part number	Bump Kit add "E" to part number
G450-10065	LEL	\$ 1,470.00	\$ 1,905.00	-	-
G450-11065	LEL, O <sub>2</sub>	\$ 1,535.00	\$ 1,970.00	\$ 2,135.00	-
G450-11165	LEL, O <sub>2</sub> , CO	\$ 1,625.00	\$ 2,060.00	\$ 2,225.00	-
G450-11265	LEL, O <sub>2</sub> , H <sub>2</sub> S	\$ 1,625.00	\$ 2,145.00	\$ 2,335.00	-
G450-11465	LEL, O <sub>2</sub> , CO, H <sub>2</sub> S	\$ 1,705.00	\$ 2,225.00	\$ 2,415.00	\$ 2,085.00

\*\* For MSHA Approved instrument with Smart Pump, use the table above but G450M-XXXX8 as Base Part Number and add \$175.00 to the price.

### Rechargeable with Flashlight Rechargeable Smart Pump (Includes double charger)

Base Part Number**	Sensors*	Instrument and Kit Configuration			
		Instrument	Value Kit add "K" to part number	Confined Space Kit add "C" to part number	Bump Kit add "E" to part number
G450-11166	LEL, O <sub>2</sub> , CO	\$ 1,690.00	\$ 2,125.00	\$ 2,290.00	-
G450-11466	LEL, O <sub>2</sub> , CO, H <sub>2</sub> S	\$ 1,770.00	\$ 2,290.00	\$ 2,480.00	\$ 2,150.00

\* For sensor ranges and resolutions see Replacement Sensors.

\*\* For MSHA Approved instrument with Smart Pump, use the table above but G450M-XXXX9 as Base Part Number and add \$175.00 to the price.



Rechargeable Battery Pack with Lights  
P/N 1450-212

# G450

## Multi-gas Detector



### Chargers and Batteries

Part Number	Description	Price
1450-202	Battery Pack, Alkaline (batteries not included) (Gray)	\$ 70.00
1450-211	Battery Pack, Rechargeable NiMH (Black)	\$ 130.00
1450-212	Battery Pack, Rechargeable NiMH with lights (Black)	\$ 190.00
4003-450	Battery Hardware Kit, includes six spare screws and hex key	\$ 10.00
1450220	Charging Cradle, Single (Power supply not included)	\$ 160.00
1450220P	Charging Cradle, Single (includes 110 V AC power supply)	\$ 190.00
1450220D	Charging Cradle, Double, for charging G450 and attached pump simultaneously	\$ 285.00
1450220DP	Charging Cradle, Double, for charging G450 and attached pump simultaneously (includes 110 V AC power supply)	\$ 310.00
1450220DP-F	Charging Cradle, Double, with cutout (for use with the metal pump adapter #1450327), for charging G450 and attached pump simultaneously (includes 110 V AC power supply)	\$ 335.00
1450-440P	Charging Cradle, Single, Vehicle (includes 12 V DC adapter)	\$ 245.00
1450-440DP	Charging Cradle, Double, Vehicle (includes 12 V DC adapter)	\$ 335.00
1450-500	Charging Cradle, 5-unit (includes 110 V AC power supply) (charge only)	\$ 1,045.00
1450-500D	Charging Cradle, 5-unit Double (includes 110 V AC power supply) (charge only)	\$ 1,480.00
1450-300	Replacement Retaining Bracket for charging cradle	\$ 45.00
4001-650	Power Supply for Charger, 110 V AC (wall cube style)	\$ 50.00
4001-650V	Power Supply for Charger, 12 V DC (cigarette lighter style)	\$ 80.00
4001-650F	Power Supply for Charger for fire vehicles	\$ 80.00

Note: All cradles include a retaining bracket.

### Datalogging

Part Number	Description	Price
1450235R	Datalogging Kit for rechargeable G450 (includes cable and software)	\$ 160.00
1450235	Datalogging Kit for alkaline G450 (includes cradle, cable and software)	\$ 310.00
1650231	Datalogging Cable, USB Data Download Cable (requires charging cradle and software)	\$ 140.00
1450233	Datalogging Software (CD)	\$ 40.00

### Remote Sampling

Part Number	Description	Price
1450327	Adapter, Metal Pump inlet w/filter (requires cradle p/n 14500220DP-F)	\$ 195.00
1450-921	G400 Motorized Smart Pump – Alkaline <sup>†</sup>	\$ 510.00
1450-922	G400 Motorized Smart Pump – Rechargeable <sup>††</sup>	\$ 525.00
1450-924	G400 Motorized Smart Pump – Rechargeable w/LED <sup>††</sup>	\$ 595.00
7711-450	Manual Hand Aspirated Pump	\$ 195.00
1450-925	G400 Motorized Smart Pump – Alkaline <sup>†</sup> (MSHA Approved)	\$ 525.00
1450-926	G400 Motorized Smart Pump – Rechargeable <sup>††</sup> (MSHA Approved)	\$ 595.00
1450-927	G400 Motorized Smart Pump – Rechargeable w/LED <sup>††</sup> (MSHA Approved)	\$ 655.00

All pumps include  
10' of tubing and  
probe with filters

<sup>†</sup> Rechargeable pumps require G400 "new style" (P/N 1450220D) double charging cradle (blue tray) to charge instrument and pump simultaneously.

<sup>††</sup> Smart pumps require instrument firmware version 3.31 or higher.



# G450

## Multi-gas Detector



### Remote Sampling continued

Part Number	Description	Price
1000-205	Probe, Stainless Steel (CrNi), Telescopic (4½ feet) with filter and tube	\$ 350.00
1000-206	Probe, Stainless Steel (CrNi), Telescopic (6 feet) with filter and tube	\$ 385.00
1000207	In-line hydrophobic barrier filter for sample tubing (3 per pack)	\$ 65.00
1000214	Probe, Plastic with internally housed filters	\$ 105.00
7740-015	Replacement Filter Kit for Plastic Probe (2 hydrophobic filters & 8 particulate filter for p/n 1000214)	\$ 70.00
2609-068	Filters, Hydrophobic (25 replacements for p/n 1000214)	\$ 350.00
1450-321	Filters, pack of 10 for internal pump	\$ 105.00
804478	Pump inlet, plexiglass	\$ 5.00
2806-006	Tubing 3/16" inside diameter (sold per foot)	\$ .60
2801-135	Battery screw for pump	\$ 5.00

### Replacement Sensors

#### 3-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1450001	Oxygen (O <sub>2</sub> )	0.1% vol.	0 - 25% vol.	\$ 185.00
1450005	Combustible (LEL)	0.5% LEL	0 - 100% LEL	\$ 275.00
1450004-L	Carbon monoxide (CO) - Standard sensor	1 ppm	0 - 500 ppm	\$ 245.00
1450014	Carbon monoxide (CO-H) reduced H <sub>2</sub> sensitivity	1 ppm	0 - 500 ppm	\$ 275.00
1450024	Carbon monoxide (CO-H) reduced H <sub>2</sub> sensitivity	1 ppm	0 - 1,000 ppm	\$ 275.00
1450003	Hydrogen sulfide (H <sub>2</sub> S)	0.1 ppm	0 - 100.0 ppm	\$ 245.00
1450002	COSH – Dual Channel	CO 1 ppm	0 - 500 ppm	\$ 400.00
		H <sub>2</sub> S 0.5 ppm	0 - 100.0 ppm	
1450-1345	Sensor Pack** (LEL, O <sub>2</sub> , CO, H <sub>2</sub> S)	See above	See above	\$ 575.00

\*\* Includes P/N 1450005, P/N 1450001, P/N 1450004-L and P/N 1450003.

### 2-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1450011	Oxygen (O <sub>2</sub> )	0.1% vol.	0 - 25% vol.	\$ 210.00
1450015	Combustible (LEL) - Unfiltered***	0.5% LEL	0 - 100% LEL	\$ 275.00

\*\*\* For use in the detection of large hydrocarbons.

### Calibration<sup>†</sup> Kits and Accessories

Part Number	Description	Price
7771-450	Calibration Adapter with tubing, regulator not included	\$ 45.00
7776-450	Calibration Kit <sup>‡</sup> without gas, includes regulator P/N 2603-020	\$ 410.00
7776-455	Calibration Kit <sup>‡</sup> without gas, includes regulator P/N 2603-025	\$ 410.00
7745-016	Calibration Kit <sup>‡</sup> with 3-way gas, includes regulator P/N 2603-020	\$ 485.00
7745-030	Calibration Kit <sup>‡</sup> with 4-way gas, includes regulator P/N 2603-025	\$ 585.00
7745-038	Bump Kit <sup>‡</sup> , Alkaline with 4-way gas, includes regulator P/N 2603-400	\$ 460.00
7745-040	Bump Kit <sup>‡</sup> , Rechargeable with 4-way gas, includes regulator P/N 2603-400	\$ 500.00

		Flow	Gauge	On/Off	Cylinders	
2603-020	Regulator, Fixed Flow	0.5 lpm	Yes	Yes	34 L Steel	\$ 285.00
2603-025	Regulator, Fixed Flow	0.5 lpm	Yes	Yes	103 L Steel & Aluminum	\$ 285.00

<sup>†</sup> All Calibration Kits include ABS carrying case, fixed flow regulator (as specified), calibration adapter and tubing.

<sup>‡</sup> Please refer to separate price list / section for additional calibration cylinders and gas types.

# G450

## Multi-gas Detector



### Calibration Kits and Accessories continued

Part Number	Description	Price
9000-050	Carrying case, Aluminum with custom foam insert (Confined Space Kit)	\$ 210.00
9000-518	Carrying case, ABS with custom foam insert (Value Kit)	\$ 145.00
9000-600	Carrying case, ABS with custom foam insert (ecoBump, Alkaline, Value Kit)	\$ 135.00
9000-700	Carrying case, ABS with custom foam insert (ecoBump, Rechargeable, Value Kit)	\$ 145.00
1450266	Protector case with carrying strap for instrument	\$ 105.00
1450269	Protector case with carrying strap for instrument with pump	\$ 135.00
943950	Crocodile belt clip (includes screw)	\$ 5.00
1450-224	Screen protectors, pack of 20	\$ 10.00
1450-EXT6	Extended 6-year sensor warranty (LEL**, O <sub>2</sub> , CO and H <sub>2</sub> S)*	\$ 380.00
1450-320	G450 Filter (pack of 4) with a gasket	\$ 25.00
1450-RFB-A	G450 Factory refurbishment kit (includes 4 new standard sensors, housing front/back, filters, alligator clip and alkaline battery pack) <sup>†</sup>	\$ 595.00
1450-RFB-R	G450 Factory refurbishment kit (includes 4 new standard sensors, housing front/back, filters, alligator clip and rechargeable NiMH battery pack) <sup>†</sup>	\$ 595.00
1450-RFB-F	G450 Factory refurbishment kit (includes 4 new standard sensors, housing front/back, filters, alligator clip and rechargeable NiMH with lights battery pack) <sup>†</sup>	\$ 595.00

\* Please contact GfG for extended warranty on other sensor combinations.

\*\* Includes P/N 1450001 and P/N 1450005.

<sup>†</sup> Sale of refurbishment kits are limited to certified GfG repair distributors.



Protector Case  
P/N 1450266



G450 Rechargeable  
with Value Kit  
P/N G450-11420K

# G450 Configurator

## Part Number Calculator

Prefix	Sensors			Options		
	Sensor 1	Sensor 2	Sensor 3/4	Battery	Pump	Kit
<b>G450- or G450M-<sup>†</sup></b>						

<sup>†</sup> MSHA Approved G450

### Sensors

Sensor 1 (cc)	Add
0 = Empty	\$ 0.00
1 = LEL**	\$ 100.00
2 = LEL (Unfiltered)*	\$ 100.00

\* Two-year warranty

\*\* % volume (MSHA)

Sensor 2	Add
0 = Empty	\$ 0.00
1 = O <sub>2</sub> 3 yr (O2-A3)	\$ 65.00
2 = O <sub>2</sub> 2 yr (4OX-V)*	\$ 100.00

\* Two-year warranty

Sensor 3/4	Add
0 = Empty	\$ 0.00
1 = CO (500 ppm)	\$ 90.00
2 = H <sub>2</sub> S (100 ppm)	\$ 90.00
4 = CO (500 ppm) and H <sub>2</sub> S (100 ppm)	\$ 170.00
5 = CO-H (500 ppm)	\$ 140.00
6 = CO-H (500 ppm) and H <sub>2</sub> S (100 ppm)	\$ 230.00
7 = CO-H (1,000 ppm)	\$ 140.00
8 = CO-H (1,000 ppm) and H <sub>2</sub> S (100 ppm)	\$ 230.00

### Options

Battery Options					Add
1 =	Alkaline				\$ 0.00
Rechargeable battery and charger options					
	Flash Light	Charger Type		12 V DC	Add
		Single	Double		
2 =		✓			\$ 95.00
3 =		✓		✓	\$ 150.00
4 =	✓	✓			\$ 155.00
5 =	✓	✓		✓	\$ 210.00
6 =			✓		\$ 215.00
7 =			✓	✓	\$ 270.00
8 =	✓		✓		\$ 275.00
9 =	✓		✓	✓	\$ 335.00

Pump Options	Add
0 = None	\$ 0.00
1 = Hand Aspirated	\$ 135.00
4 = Smart, Alkaline	\$ 470.00
5 = Smart, NiMH	\$ 530.00
6 = Smart, NiMH with flashlight	\$ 595.00
7 = Smart, Alkaline (MSHA) <sup>†</sup>	\$ 530.00
8 = Smart, NiMH (MSHA) <sup>†</sup>	\$ 595.00
9 = Smart, NiMH with flashlight (MSHA) <sup>†</sup>	\$ 680.00

<sup>†</sup> MSHA Approved G400-MP2 Smart Pump

The G400 smart pump communicates with the instrument and provides continuous display of pump status, including audible and visual alarm when flow is blocked.

Kit Options	Add
Leave blank = None	\$ 0.00
K = Value Kit	
without H <sub>2</sub> S	\$ 435.00
with H <sub>2</sub> S	\$ 520.00
C = Confined Space Kit	
without H <sub>2</sub> S	\$ 600.00
with H <sub>2</sub> S	\$ 710.00
S = Carrying Case	\$ 140.00
E = Bump Kit (quad mix only)	
Alkaline	\$ 300.00
Rechargeable	\$ 380.00

### Price Calculator

Base (G450) or (G450M) <sup>†</sup>	Sensors			Options			Total
	Sensor 1	Sensor 2	Sensor 3/4	Battery	Pump	Kit	
<b>\$625 or \$740<sup>†</sup></b>							\$

<sup>†</sup> MSHA Approved G450

GfG reserves the right to change part numbers, prices and/or technical information without notice. All rights reserved to correct typographical errors. All prices are listed in US dollars.



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# G460

## Multi-gas Detector



$\text{CH}_3\text{SH}$ ,  $\text{C}_2\text{H}_4\text{O}$ ,  $\text{Cl}_2$ ,  $\text{ClO}_2$ ,  $\text{CO}$ ,  $\text{CO}_2$ ,  $\text{COCl}_2$ , Combustible (Catalytic), Combustible (Infrared),  $\text{H}_2$ ,  $\text{HCl}$ ,  $\text{HCN}$ ,  $\text{HF}$ ,  $\text{H}_2\text{S}$ ,  $\text{NH}_3$ ,  $\text{NO}$ ,  $\text{NO}_2$ ,  $\text{O}_2$ ,  $\text{O}_3$ ,  $\text{PH}_3$ , PID (VOC),  $\text{SiH}_4$ ,  $\text{SO}_2$

The G460 is a rugged, compact instrument for simultaneous detection of up to seven gases. The concussion proof housing, along with the highly dust and water resistant housing protects the instrument in the harshest environments. The G460 features completely automatic calibration, one-button operation, top mounted display and interchangeable battery packs for up to 24 hours of continuous operation. The rechargeable NiMH battery pack can even be equipped with optional "flash light" LEDs.

The G460 has a highly configurable smart sensor design and data logging / event logging are standard. There are a wide range of additional sensors available.

Options include a detachable, self-powered pump for sampling confined spaces prior to entry. It allows operation of the instrument in diffusion or sample-draw mode.

A full 3-year warranty is provided on most commonly used sensors (combustible,  $\text{CO}$ ,  $\text{H}_2\text{S}$  and  $\text{CO}_2$ ) and 5 years on the  $\text{O}_2$  sensor, which reduces the cost of ownership over the lifetime of the instrument. There is an optional 6-year warranty available at the time of purchase.

### Features:

- Exceptional HAZMAT and Confined Space performance
- Up to 7 channels of detection, including...
- PID sensor for direct reading of toxic VOCs
- Infrared (NDIR) sensors for  $\text{CO}_2$  and combustible gas (0% LEL - 100% volume)
- Full 3-year warranty on Combustible,  $\text{CO}$ ,  $\text{H}_2\text{S}$  and  $\text{CO}_2$  sensors and 5 years on the  $\text{O}_2$  sensor\*
- Highly configurable smart sensor design
- Full featured, compact and rugged design

\*  $\text{O}_2$  sensor and unfiltered LEL sensors available with optional 2-year warranty

### Standard Accessories:

- G460 detector
- Specified sensors
- Charger (if specified)
- Calibration adapter
- Manual

### Optional Accessories:

- Pump with 10 ft of tubing and probe
- Datalogging kit
- Docking station
- Test station
- Calibration gas, kits and regulators

### Bump Kit Configuration:

- All standard accessories
- T-8 Torx driver
- Push button regulator
- Bump test gas cylinder quad mix
- Carrying case

### Value Kit Configuration:

- All standard accessories
- Applicable calibration gas
- Fixed flow regulator
- ABS carrying case

### Confined Space Kit Configuration:

- All value kit accessories
- Applicable calibration gas
- Rugged aluminum case (instead of ABS)
- Spare alkaline battery
- Hand aspirated pump or motorized smart pump (as specified)
- Data download cable and software



# G460

## Multi-gas Detector



### Instrument Pricing

#### Common Standard Sensor Configurations

Base Part Number	Sensors*	Instrument Battery Type		
		Alkaline add "10" to part number	NiMH add "20" to part number	NiMH w/ Flashlights add "40" to part number
G460-1D 01 02 00	O <sub>2</sub> , cc LEL <sup>†</sup> , CO, H <sub>2</sub> S	\$ 1,335.00	\$ 1,490.00	\$ 1,550.00
G460-1D 03 00 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup>	\$ 1,320.00	\$ 1,475.00	\$ 1,535.00
G460-1D 03 12 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , Cl <sub>2</sub>	\$ 1,740.00	\$ 1,895.00	\$ 1,955.00
G460-1D 03 20 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , HCN	\$ 1,635.00	\$ 1,790.00	\$ 1,850.00
G460-1D 03 16 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , NH <sub>3</sub>	\$ 1,730.00	\$ 1,885.00	\$ 1,945.00
G460-1D 03 22 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , PH <sub>3</sub>	\$ 1,755.00	\$ 1,910.00	\$ 1,970.00
G460-1D 03 24 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , NO <sub>2</sub>	\$ 1,635.00	\$ 1,790.00	\$ 1,850.00
G460-1D 03 10 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , SO <sub>2</sub>	\$ 1,605.00	\$ 1,760.00	\$ 1,820.00
G460-1D 10 16 00	O <sub>2</sub> , cc LEL <sup>†</sup> , SO <sub>2</sub> , NH <sub>3</sub>	\$ 1,760.00	\$ 1,915.00	\$ 1,975.00

#### Common PID (0-2,000) Equipped Sensor Configurations

Base Part Number	Sensors*	Instrument Battery Type		
		Alkaline add "10" to part number	NiMH add "20" to part number	NiMH w/ Flashlights add "40" to part number
G460-1D 01 70 00	O <sub>2</sub> , cc LEL <sup>†</sup> , CO, PID	\$ 2,735.00	\$ 2,890.00	\$ 2,950.00
G460-1D 03 70 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , PID	\$ 2,855.00	\$ 3,010.00	\$ 3,070.00

#### Common NDIR (IR LEL<sup>†</sup> / CO<sub>2</sub>) Equipped Sensor Configurations

Base Part Number	Sensors*	Instrument Battery Type		
		Alkaline add "10" to part number	NiMH add "20" to part number	NiMH w/ Flashlights add "40" to part number
G460-1D 01 02 60	O <sub>2</sub> , cc LEL <sup>†</sup> , CO, H <sub>2</sub> S, CO <sub>2</sub>	\$ 2,820.00	\$ 2,975.00	\$ 3,035.00
G460-0D 01 02 61	O <sub>2</sub> , IR LEL <sup>†</sup> , CO, H <sub>2</sub> S	\$ 2,685.00	\$ 2,840.00	\$ 2,900.00
G460-0D 03 00 64	O <sub>2</sub> , IR LEL <sup>†</sup> , COSH <sup>‡</sup> , CO <sub>2</sub>	\$ 3,280.00	\$ 3,435.00	\$ 3,495.00

<sup>†</sup> cc LEL = Catalytic Combustion LEL Sensor (traditional); IR LEL = Infrared LEL Sensor.

<sup>‡</sup> COSH is a combination CO and H<sub>2</sub>S sensor providing discrete readouts for each channel.

\* For sensor ranges and resolutions see Replacement Sensors.

For configurations not listed in the table, please use the G460 Configurator.

All configurations on this page are for instruments with the specified sensors and battery options only.

# G460

## Multi-gas Detector



### Instrument Pricing continued

#### G460 w/ Alkaline Smart Pump (NiMH Includes single charger)

Base Part Number	Sensors*	Instrument Battery Type		
		Alkaline add "14" to part number	NiMH add "24" to part number	NiMH w/ Flashlights add "44" to part number
G460-1D 01 02 00	O <sub>2</sub> , cc LEL <sup>†</sup> , CO, H <sub>2</sub> S	\$ 1,805.00	\$ 1,960.00	\$ 2,020.00
G460-1D 03 00 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup>	\$ 1,790.00	\$ 1,945.00	\$ 2,005.00
G460-1D 03 12 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , Cl <sub>2</sub>	\$ 2,210.00	\$ 2,365.00	\$ 2,425.00
G460-1D 03 20 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , HCN	\$ 2,105.00	\$ 2,260.00	\$ 2,320.00
G460-1D 03 16 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , NH <sub>3</sub>	\$ 2,200.00	\$ 2,355.00	\$ 2,415.00
G460-1D 03 22 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , PH <sub>3</sub>	\$ 2,225.00	\$ 2,380.00	\$ 2,440.00
G460-1D 03 24 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , NO <sub>2</sub>	\$ 2,105.00	\$ 2,260.00	\$ 2,320.00
G460-1D 03 10 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , SO <sub>2</sub>	\$ 2,075.00	\$ 2,230.00	\$ 2,290.00
G460-1D 02 10 00	O <sub>2</sub> , cc LEL <sup>†</sup> , H <sub>2</sub> S, SO <sub>2</sub>	\$ 1,955.00	\$ 2,110.00	\$ 2,170.00
G460-1D 10 16 00	O <sub>2</sub> , cc LEL <sup>†</sup> , SO <sub>2</sub> , NH <sub>3</sub>	\$ 2,230.00	\$ 2,385.00	\$ 2,445.00

#### Common PID (0-2,000) Equipped Sensor Configurations

Base Part Number	Sensors*	Instrument Battery Type		
		Alkaline add "14" to part number	NiMH add "24" to part number	NiMH w/ Flashlights add "44" to part number
G460-1D 01 70 00	O <sub>2</sub> , cc LEL <sup>†</sup> , CO, PID	\$ 3,205.00	\$ 3,360.00	\$ 3,420.00
G460-1D 02 70 00	O <sub>2</sub> , cc LEL <sup>†</sup> , H <sub>2</sub> S, PID	\$ 3,205.00	\$ 3,360.00	\$ 3,420.00
G460-1D 03 70 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , PID	\$ 3,325.00	\$ 3,480.00	\$ 3,540.00

#### Common NDIR (IR LEL<sup>†</sup> / CO<sub>2</sub>) Equipped Sensor Configurations

Base Part Number	Sensors*	Instrument Battery Type		
		Alkaline add "14" to part number	NiMH add "24" to part number	NiMH w/ Flashlights add "44" to part number
G460-1D 01 02 60	O <sub>2</sub> , cc LEL <sup>†</sup> , CO, H <sub>2</sub> S, CO <sub>2</sub>	\$ 3,290.00	\$ 3,445.00	\$ 3,505.00
G460-0D 03 00 64	O <sub>2</sub> , IR LEL <sup>†</sup> , COSH <sup>‡</sup> , CO <sub>2</sub>	\$ 3,750.00	\$ 3,905.00	\$ 3,965.00
G460-0D 01 02 64	O <sub>2</sub> , IR LEL <sup>†</sup> , CO, H <sub>2</sub> S, CO <sub>2</sub>	\$ 3,765.00	\$ 3,920.00	\$ 3,980.00
G460-0D 03 10 64	O <sub>2</sub> , IR LEL <sup>†</sup> , COSH <sup>‡</sup> , SO <sub>2</sub> , CO <sub>2</sub>	\$ 4,035.00	\$ 4,190.00	\$ 4,250.00

#### Common PID (0-2,000) and NDIR (IR LEL<sup>†</sup> / CO<sub>2</sub>) Equipped Sensor Configurations

Base Part Number	Sensors*	Instrument Battery Type		
		Alkaline add "14" to part number	NiMH add "24" to part number	NiMH w/ Flashlights add "44" to part number
G460-0D 03 70 64	O <sub>2</sub> , IR LEL <sup>†</sup> , COSH <sup>‡</sup> , PID, CO <sub>2</sub>	\$ 5,285.00	\$ 5,440.00	\$ 5,500.00

<sup>†</sup> cc LEL = Catalytic Combustion LEL Sensor (traditional); IR LEL = Infrared LEL Sensor.

<sup>‡</sup> COSH is a combination CO and H<sub>2</sub>S sensor providing discrete readouts for each channel.

\* For sensor ranges and resolutions see Replacement Sensors.

For configurations not listed in the table, please use the G460 Configurator.

All configurations on this page are for instruments with the specified sensors, battery options and a motorized smart pump with alkaline battery pack.

All configurations include a double charger to charge the instrument and the pump simultaneously.

# G460

## Multi-gas Detector



### Instrument Pricing continued

### G460 w/ NiMH Smart Pump (Includes double charger)

#### Common Standard Sensor Configurations

Base Part Number	Sensors*	Instrument Battery Type	
		NiMH add "65" to part number	NiMH w/ Flashlights add "66" to part number
G460-1D 01 02 00	O <sub>2</sub> , cc LEL <sup>†</sup> , CO, H <sub>2</sub> S	\$ 2,140.00	\$ 2,205.00
G460-1D 03 00 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup>	\$ 2,125.00	\$ 2,190.00
G460-1D 03 12 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , Cl <sub>2</sub>	\$ 2,545.00	\$ 2,610.00
G460-1D 03 20 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , HCN	\$ 2,440.00	\$ 2,505.00
G460-1D 03 22 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , PH <sub>3</sub>	\$ 2,560.00	\$ 2,625.00
G460-1D 03 24 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , NO <sub>2</sub>	\$ 2,440.00	\$ 2,505.00
G460-1D 03 10 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , SO <sub>2</sub>	\$ 2,410.00	\$ 2,475.00
G460-1D 02 10 00	O <sub>2</sub> , cc LEL <sup>†</sup> , H <sub>2</sub> S, SO <sub>2</sub>	\$ 2,290.00	\$ 2,355.00

#### Common PID (0-2,000) Equipped Sensor Configurations

Base Part Number	Sensors*	Instrument Battery Type	
		NiMH add "65" to part number	NiMH w/ Flashlights add "66" to part number
G460-1D 01 70 00	O <sub>2</sub> , cc LEL <sup>†</sup> , CO, PID	\$ 3,540.00	\$ 3,605.00
G460-1D 02 70 00	O <sub>2</sub> , cc LEL <sup>†</sup> , H <sub>2</sub> S, PID	\$ 3,540.00	\$ 3,605.00
G460-1D 03 70 00	O <sub>2</sub> , cc LEL <sup>†</sup> , COSH <sup>‡</sup> , PID	\$ 3,660.00	\$ 3,725.00

#### Common NDIR (IR LEL<sup>†</sup> / CO<sub>2</sub>) Equipped Sensor Configurations

Base Part Number	Sensors*	Instrument Battery Type	
		NiMH add "65" to part number	NiMH w/ Flashlights add "66" to part number
G460-0D 03 00 64	O <sub>2</sub> , IR LEL <sup>†</sup> , COSH <sup>‡</sup> , CO <sub>2</sub>	\$ 4,085.00	\$ 4,150.00

#### Common PID (0-2,000) and NDIR (IR LEL<sup>†</sup> / CO<sub>2</sub>) Equipped Sensor Configurations

Base Part Number	Sensors*	Instrument Battery Type	
		NiMH add "65" to part number	NiMH w/ Flashlights add "66" to part number
G460-0D 03 70 64	O <sub>2</sub> , IR LEL <sup>†</sup> , COSH <sup>‡</sup> , PID, CO <sub>2</sub>	\$ 5,620.00	\$ 5,685.00

<sup>†</sup> cc LEL = Catalytic Combustion LEL Sensor (traditional); IR LEL = Infrared LEL Sensor.

<sup>‡</sup> COSH is a combination CO and H<sub>2</sub>S sensor providing discrete readouts for each channel.

\* For sensor ranges and resolutions see Replacement Sensors.

For configurations not listed in the table, please use the G460 Configurator.

All configurations on this page are for instruments with the specified sensors, rechargeable battery options and a motorized smart pump with rechargeable battery pack. All configurations include a double charger to charge the instrument and the pump simultaneously.

Rechargeable (NiMH) instrument configurations include a single charger.

# G460

## Multi-gas Detector



### Instrument Pricing continued

### Select Kit Configurations

#### Common Standard Sensor Kit Configurations

Base Part Number	Sensors*	Value Kit add "K" to part number	Confined Space Kit add "C" to part number
G460-1D 03 20 00 65	O <sub>2</sub> , cc LEL †, COSH‡, HCN	\$ 3,370.00	\$ 3,515.00
G460-1D 03 10 00 65	O <sub>2</sub> , cc LEL †, COSH‡, SO <sub>2</sub>	\$ 3,150.00	\$ 3,295.00

#### Common PID (0-2,000) Equipped Kit Configurations

Base Part Number	Sensors*	Value Kit add "K" to part number	Confined Space Kit add "C" to part number
G460-1D 03 70 00 65	O <sub>2</sub> , cc LEL †, COSH‡, PID	\$ 4,400.00	\$ 4,545.00

#### Common PID (0-2,000) and NDIR (IR LEL<sup>†</sup>) Equipped Kit Configurations

Base Part Number	Sensors*	Value Kit add "K" to part number	Confined Space Kit add "C" to part number
G460-0D 03 70 61 65	O <sub>2</sub> , IR LEL †, COSH‡, PID	\$ 5,750.00	\$ 5,895.00

† cc LEL = Catalytic Combustion LEL Sensor (traditional); IR LEL = Infrared LEL Sensor.

‡ COSH is a combination CO and H<sub>2</sub>S sensor providing discrete readouts for each channel.

\* For sensor ranges and resolutions see Replacement Sensors.

All configurations on the above three Select Kit Configurations are for instruments with the specified sensors, rechargeable battery pack and a motorized smart pump with rechargeable battery packs. All configurations include a double charger to charge the instrument and the pump simultaneously and the components specified for the kit type.

Additional configurations are available upon request.



Double Charging Cradle  
For charging the G450 or G460 with attached pump  
P/N 1450220D



G400 MP-2 Motorized Smart Pump  
Available in alkaline, rechargeable or rechargeable with LED flashlight  
P/N 1450-922



# G460

## Multi-gas Detector



### Chargers and Batteries

Part Number	Description	Price
1450-202	Battery Pack, Alkaline (batteries not included) (Gray)	\$ 70.00
1450-211	Battery Pack, Rechargeable NiMH (Black)	\$ 130.00
1450-212	Battery Pack, Rechargeable NiMH with lights (Black)	\$ 190.00
1450220	Charging Cradle, Single	\$ 160.00
1450220P	Charging Cradle, Single (includes 110 V AC power supply)	\$ 190.00
1450220D	Charging Cradle, Double, for charging G460 and attached pump simultaneously	\$ 285.00
1450220DP	Charging Cradle, Double, for charging G460 and attached pump simultaneously (includes 110 V AC power supply)	\$ 310.00
1450220DP-F	Charging Cradle, Double, with cutout, for charging G460 and attached pump simultaneously (includes 110 V AC power supply)	\$ 335.00
1450-440P	Vehicle Charging Cradle, Single (includes 12 V DC adapter)	\$ 245.00
1450-440DP	Vehicle Charging Cradle, Double (includes 12 V DC adapter)	\$ 335.00
1450-500	Charging Cradle, 5-unit (includes 110 V AC power supply)(charge only)	\$ 1,045.00
1450-500D	Charging Cradle, Double (includes 110 V AC power supply)(charge only)	\$ 1,480.00
1450-300	Replacement Retaining Bracket	\$ 40.00
4001-650	Power Supply for Charger, 110 V AC (wall cube style)	\$ 45.00
4001-650V	Power Supply for Charger, 12 V DC (cigarette lighter style)	\$ 75.00
4001-650F	Power Supply for Charger for fire vehicles	\$ 75.00
4003-450	Battery Hardware Kit, includes six spare screws and hex key	\$ 10.00

Note: All cradles include a retaining bracket.

### Datalogging

Part Number	Description	Price
1450235R	Datalogging Kit for rechargeable G460 (includes cable and software)	\$ 160.00
1450235	Datalogging Kit for alkaline G460 (includes charging cradle, cable and software)	\$ 310.00
3005-MSDC	Memory card (2 GB) for data storage	\$ 35.00
1650231	Cable, USB Data Download (requires charging cradle and software)	\$ 130.00
1450233	Datalogging Software (CD)	\$ 35.00

### Remote Sampling

Part Number	Description	Price
1450327	Adapter, Metal Pump inlet w/filter (requires cradle p/n 1450220DP-F)	\$ 195.00
1450-921	G400 Motorized Smart Pump – Alkaline <sup>†</sup>	\$ 470.00
1450-922	G400 Motorized Smart Pump – Rechargeable <sup>††</sup>	\$ 525.00
1450-924	G400 Motorized Smart Pump – Rechargeable w/LED <sup>††</sup>	\$ 595.00
7711-450	Manual Hand Aspirated Pump	\$ 195.00
1000-205	Probe, Stainless Steel (CrNi), Telescopic (4½ feet) with filter and tube	\$ 350.00
1000-206	Probe, Stainless Steel (CrNi), Telescopic (6 feet) with filter and tube	\$ 385.00
1000207	In-line hydrophobic barrier filter for sample tubing (3 per pack)	\$ 60.00
1000214	Probe, Plastic with internally housed filters	\$ 95.00
7740-015	Replacement Filter Kit for Plastic Probe (2 hydrophobic filters and 8 particulate filter for p/n 1000214)	\$ 70.00
2609-068	Filters, Hydrophobic (25 replacements for p/n 1000214)	\$ 350.00
1450-321	Filters, pack of 10 for internal pump	\$ 95.00

<sup>†</sup> Rechargeable pumps require G400 “current style” (P/N 1450220D) double charging cradle (blue tray) to charge instrument and pump simultaneously.

<sup>††</sup> Smart pumps require instrument firmware version 3.31 or higher.

# G460

## Multi-gas Detector



### Remote Sampling continued

Part Number	Description	Price
804478	Pump inlet, plexiglass	\$ 5.00
2806-006	Tubing 3/16" inside diameter (sold per foot)	\$ .60
2801-135	Battery screw for pump	\$ 5.00

### Calibration<sup>†</sup> Kits and Accessories

Part Number	Description	Price
7771-450	Calibration Adapter with tubing, no regulator	\$ 45.00
7776-450	Calibration Kit <sup>†</sup> without gas, includes regulator P/N 2603-020	\$ 410.00
7776-455	Calibration Kit <sup>†</sup> without gas, includes regulator P/N 2603-025	\$ 410.00
7745-016	Calibration Kit <sup>†</sup> with 3-way gas (O <sub>2</sub> , CO, CH <sub>4</sub> ) and 0.5 lpm regulator P/N 2603-020	\$ 485.00
7745-030	Calibration Kit <sup>†</sup> with 4-way gas (O <sub>2</sub> , CO, CH <sub>4</sub> & H <sub>2</sub> S) and 0.5 lpm regulator P/N 2603-025	\$ 585.00
7745-031	Calibration Kit <sup>†</sup> with 4-way and Isobutylene gas and 0.5 lpm regulator P/N 2603-025	\$ 735.00
7745-032	Calibration Kit <sup>†</sup> with 5-way gas (O <sub>2</sub> , CO, CH <sub>4</sub> , H <sub>2</sub> S & CO <sub>2</sub> ) and 0.5 lpm regulator P/N 2603-025	\$ 650.00
7745-041	Calibration Kit <sup>†</sup> with 5-way gas (SO <sub>2</sub> ) (10 ppm) and 0.5 lpm regulator P/N 2603-025	\$ 665.00
7776-461	Calibration Kit <sup>†</sup> without gas, includes 1.0 lpm regulator P/N 2603-026	\$ 425.00
7745-030C	Calibration Kit <sup>†</sup> with 4-way gas, includes 1.0 lpm regulator P/N 2603-026	\$ 585.00

		Flow	Gauge	On/Off	Cylinders	HCl/ Cl <sub>2</sub>	
2603-020	Regulator, Fixed Flow	0.5 lpm	Yes	Yes	34 L Steel	No	\$ 285.00
2603-025	Regulator, Fixed Flow	0.5 lpm	Yes	Yes	103 L Steel & Aluminum	No	\$ 285.00
2603-026	Regulator, Fixed Flow	1 lpm	Yes	Yes		Yes	\$ 285.00
9000-050	Carrying case, Aluminum with custom foam insert (Confined Space Kit)						\$ 210.00
9000-518	Carrying case, ABS with custom foam insert (Value Kit)						\$ 145.00
1450266	Protector case with carrying strap for instrument						\$ 95.00
1450269	Protector case with carrying strap for instrument with pump						\$ 125.00
943950	Crocodile belt clip (includes screw)						\$ 5.00
1450-224	Screen protectors, pack of 20						\$ 10.00
2803-026	PID sensor cap						\$ 30.00
2803-048	PID spacer						\$ 30.00
2601-008	PID top filter, Teflon, large (1µm)						\$ 40.00
2601-009	PID bottom filter, Teflon cloth (10µm)						\$ 20.00
7740-016	PID dry lamp cleaning kit (includes polishing disc)						\$ 40.00
7740-026	PID maintenance kit (includes polishing disc, Teflon filter, cotton filter and padded swab)						\$ 125.00
5500-001	Cell, PID Ionization (electrode stack)						\$ 125.00
1460-EXT6	Extended 6-year sensor warranty (LEL, O <sub>2</sub> (5 year lead-free), CO and H <sub>2</sub> S)*						\$ 500.00
1463-EXT6	Extended 6-year sensor warranty (LEL, O <sub>2</sub> (5 year lead-free) and COSH)*						\$ 470.00
1460-320	G460 Filter (pack of 6) with a gasket						\$ 30.00

<sup>†</sup> All Calibration Kits include ABS carrying case, fixed flow regulator (as specified), calibration adapter and tubing.

<sup>†</sup> Please refer to separate price list/section for additional calibration cylinders and gas types.

\* Please contact GfG for extended warranty on other sensor combinations.

Protector Case shown does not include instrument  
P/N 1450266



# G460

## Multi-gas Detector



### Replacement Sensors

#### 5-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1460231D	Oxygen (O <sub>2</sub> ) (4OXL Lead Free) (Standard)	0.1% vol.	0 - 25% vol.	\$ 210.00

#### 3-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1460231	Oxygen (O <sub>2</sub> ) (O2-A3)	0.1% vol.	0 - 25% vol.	\$ 210.00
1460710	Combustible (LEL)	0.5% LEL	0 - 100% LEL	\$ 285.00
1460232	Carbon monoxide (CO)	1 ppm	0 - 300 ppm	\$ 275.00
1460247	Carbon monoxide (CO)	1 ppm	0 - 500 ppm	\$ 275.00
1460235	Carbon monoxide (CO)	1 ppm	0 - 1,000 ppm	\$ 275.00
1460018	Carbon monoxide (CO)	1 ppm	0 - 2,000 ppm	\$ 275.00
1460233	Carbon monoxide (CO-H) reduced H <sub>2</sub> sensitivity	1 ppm	0 - 300 ppm	\$ 305.00
1460261	Carbon monoxide (CO-H) reduced H <sub>2</sub> sensitivity	1 ppm	0 - 500 ppm	\$ 305.00
1460235M	Carbon monoxide (CO-H) reduced H <sub>2</sub> sensitivity	1 ppm	0 - 1,000 ppm	\$ 305.00
1460236	Hydrogen sulfide (H <sub>2</sub> S) - Standard	0.1 ppm	0 - 100.0 ppm	\$ 275.00
1460111	Hydrogen sulfide (H <sub>2</sub> S)	1 ppm	0 - 500 ppm	\$ 275.00
1650730	COSH – Dual Channel	CO 1 ppm	0 - 500 ppm	\$ 425.00
		H <sub>2</sub> S 0.5 ppm	0 - 100.0 ppm	
1460-1345	Sensor Pack (LEL, O <sub>2</sub> (5 year lead-free), and COSH)	See above	See above	\$ 685.00

#### 3-Year Sensor Warranty NDIR (Infrared)

Part Number	Sensors	Resolution	Range	Price
1460780	Carbon dioxide (CO <sub>2</sub> )	0.01% vol.	0 - 5% vol.	\$ 1,485.00
1460782	Carbon dioxide (CO <sub>2</sub> )	0.01% vol.	0 - 25% vol.	\$ 1,485.00
1460770	Combustible (LEL)	0.2% LEL	0 - 100% LEL	\$ 1,485.00
1460772	Combustible (% vol.)	0.01% vol.	0 - 100% vol.	\$ 1,485.00
1460773	Combustible (LEL & % vol.)	Same as above (CO <sub>2</sub> = 0 - 5% vol.)		\$ 1,485.00
1460774	CO <sub>2</sub> and Combustible (LEL)			\$ 2,095.00
1460778	CO <sub>2</sub> and Combustible (LEL & % vol.)			\$ 2,095.00



# G460

## Multi-gas Detector



### Replacement Sensors continued

#### 2-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1460231B	Oxygen (O <sub>2</sub> )	0.1% vol.	0 - 25% vol.	\$ 220.00
1460720	Combustible (LEL) - Unfiltered**	0.5% LEL	0 - 100% LEL	\$ 285.00
1460245	Chlorine (Cl <sub>2</sub> )	0.1 ppm	0 - 10.0 ppm	\$ 625.00
1460154	Chlorine dioxide (ClO <sub>2</sub> )	0.01 ppm	0 - 2.00 ppm	\$ 810.00
1460262	Ethylene oxide (ETO) (C <sub>2</sub> H <sub>4</sub> O)	0.1 ppm	0 - 20.0 ppm	\$ 730.00
1460258	Hydrogen (H <sub>2</sub> )	2 ppm	0 - 2,000 ppm	\$ 695.00
1460260	Hydrogen (H <sub>2</sub> )	0.01% vol.	0 - 1.00% vol	\$ 730.00
1460259	Hydrogen (H <sub>2</sub> ) - Standard	0.01% vol.	0 - 4.00% vol	\$ 730.00
1460255	Hydrogen cyanide (HCN)	0.5 ppm	0 - 50.0 ppm	\$ 430.00
1460238	Nitrogen dioxide (NO <sub>2</sub> )	0.2 ppm	0 - 50.0 ppm	\$ 430.00
1460338	Nitrogen dioxide (NO <sub>2</sub> )	0.02 ppm	0 - 30.00 ppm	\$ 430.00
1460151	Nitric oxide (NO)	1 ppm	0 - 100 ppm	\$ 590.00
1460242	Phosphine (PH <sub>3</sub> )	0.05 ppm	0 - 10.00 ppm	\$ 595.00
1460150	Sulfur dioxide (SO <sub>2</sub> )	0.05 ppm	0 - 10.00 ppm	\$ 420.00
1460133	Sulfur dioxide (SO <sub>2</sub> )	0.1 ppm	0 - 100 ppm	\$ 420.00
1460703	Photo Ionization (PID)*	0.1 ppm	0 - 500.0 ppm	\$ 1,695.00
1460704	Photo Ionization (PID)*	0.5 ppm	0 - 2,000 ppm	\$ 1,695.00
1460706	Photo Ionization (PID)*	5 ppm	0 - 10,000 ppm	\$ 1,695.00
5500-002	PID 10.6eV replacement lamp assembly for the above 3 sensors*			\$ 380.00

#### 1-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1460250	Ammonia (NH <sub>3</sub> )	1 ppm	0 - 200 ppm	\$ 550.00
1460500	Ammonia (NH <sub>3</sub> )	5 ppm	0 - 500 ppm	\$ 550.00
1460264	Hydrogen fluoride (HF)	0.1 ppm	0 - 10.0 ppm	\$ 865.00
1460249	Hydrogen chloride (HCl)	0.2 ppm	0 - 30.0 ppm	\$ 805.00
1460220	THT / Methyl Mercaptan (CH <sub>3</sub> SH)	0.1 ppm	0 - 25 ppm	\$ 685.00
1460257	Ozone (O <sub>3</sub> )	0.01 ppm	0 - 1.00 ppm	\$ 820.00
1460243	Silane (SiH <sub>4</sub> )	0.1 ppm	0 - 40.0 ppm	\$ 1,160.00

#### 6-Month Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1460248	Phosgene (COCl <sub>2</sub> )	0.01 ppm	0 - 2.00 ppm	\$ 950.00

\* PID sensor electronics warranty is for the lifetime of the sensor. The PID 10.6eV replacement lamp warranty is for 2 years.

\*\* For use in the detection of large hydrocarbons.

# G460 Configurator

## Part Number Calculator

Prefix	Sensors					Options		
	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Battery	Pump	Kit
G460-								

### Sensors

Sensor 1 (cc)	Add
0 = Empty	\$ 0.00
1 = LEL 3 yr	\$ 135.00
2 = LEL 2 yr (Unfiltered)	\$ 135.00

Sensor 2	Add
0 = Empty	\$ 0.00
1 = O <sub>2</sub> 3 yr (O2-A3)	\$ 130.00
B = O <sub>2</sub> 2 yr (4OXV)**	\$ 160.00
D = O <sub>2</sub> 5 yr (4OXLf)	\$ 130.00
A = Toxic**	-

\*\* All toxic sensors are available for Sensor 2 except COSH and PID.

### Options

Battery Options					Add
1 =	Alkaline				\$ 0.00
Rechargeable battery and charger options:					
	Flash Light	Charger Type Single	Charger Type Double	12 V DC	Add
2 =		✓			\$ 155.00
3 =		✓		✓	\$ 210.00
4 =	✓	✓			\$ 215.00
5 =	✓	✓		✓	\$ 270.00
6 =			✓		\$ 275.00
7 =			✓	✓	\$ 335.00
8 =	✓		✓		\$ 345.00
9 =	✓		✓	✓	\$ 400.00

Please contact GfG for range, sensors or gases that are not listed.

Sensor	3†	4†	Add
Empty	00	-	\$ 0.00
CO (300)†	01	01	\$ 135.00
H <sub>2</sub> S (100)†	02	02	\$ 135.00
COSH	03	-	\$ 255.00
CO-H (300)†	04	04	\$ 200.00
H <sub>2</sub> S (500)	05	05	\$ 135.00
SO <sub>2</sub> (10)	10	10	\$ 285.00
Cl <sub>2</sub> (10)	12	12	\$ 420.00
ClO <sub>2</sub> (2)	14	14	\$ 660.00
NH <sub>3</sub> (200)	16	16	\$ 410.00
NH <sub>3</sub> (500)	18	18	\$ 410.00
HCN (50)	20	20	\$ 315.00
HCl (30)	21	21	\$ 655.00
PH <sub>3</sub> (10)	22	22	\$ 435.00
NO (100)	23	23	\$ 285.00
NO <sub>2</sub> (50)	24	24	\$ 315.00
C <sub>2</sub> H <sub>4</sub> O (ETO) (20)	26	26	\$ 315.00
HF (10)	27	27	\$ 715.00
O <sub>3</sub> (1)	28	28	\$ 680.00
H <sub>2</sub> (2,000)	29	29	\$ 535.00
CO (1,000)	31	31	\$ 135.00
H <sub>2</sub> (4% vol.)†	32	32	\$ 525.00
CO-H (1,000)	33	33	\$ 200.00
CO (500)	34	34	\$ 135.00
SiH <sub>4</sub> (40)	35	35	\$ 1,045.00
H <sub>2</sub> (1% vol.)	36	36	\$ 525.00
THT (100 mg/m³)	37	37	\$ 685.00
CO-H (500)	38	38	\$ 200.00
COCl <sub>2</sub> (2)	39	39	\$ 800.00
THT (25)	40	40	\$ 685.00
NO <sub>2</sub> (30)	41	41	\$ 285.00
SO <sub>2</sub> (100)	44	44	\$ 285.00
CO (2,000)	50	50	\$ 135.00
PID (2,000)	-	70	\$ 1,535.00
PID (500)	-	71	\$ 1,535.00
PID (0-10,000)	-	73	\$ 1,535.00

Sensor 5 (NDIR)				Add
	CO <sub>2</sub>	LEL	% Vol	
00 =	-	-	-	\$ 0.00
60 =	0-5%†	-	-	\$ 1,485.00
61 =	-	0-100%	-	\$ 1,485.00
63 =	-	0-100%	0-100%	\$ 1,485.00
64 =	0-5%†	0-100%	-	\$ 2,095.00
66 =	0-5%†	0-100%	0-100%	\$ 2,095.00
67 =	0-25%	-	-	\$ 1,485.00

† Standard version.

Pump Options	Add
0 = None	\$ 0.00
1 = Hand Aspirated	\$ 135.00
4 = Smart, Alkaline	\$ 470.00
5 = Smart, NiMH	\$ 530.00
6 = Smart, NiMH w/flashlight	\$ 595.00

The G400 smart pump communicates with the instrument and provides continuous display of pump status, including audible and visual alarm when flow is blocked.

Kit Options	Add
Leave blank = None	\$ 0.00
K = Value Kit (add gas)**	\$ 410.00
C = Confined Space Kit (add gas)**	\$ 555.00
S = Carrying Case	\$ 140.00
E = Bump Kit (quad mix only)	\$ 300.00
Alkaline Rechargeable	\$ 380.00

\*\*The kits for the G460 include a .5 lpm regulator, there is an additional charge if an additional regulator is required. There is an additional charge for the calibration gas, which varies depending on the gas. See Calibration Gas pricing page to add applicable gas price. Contact GfG for further assistance.

Key for chart to the left:

† Standard version.

† Select sensors 3 & 4 in numeric order. Leave sensor empty if only one sensor is selected.

## Price Calculator

Base (G460)	Sensors					Options			Total
	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Battery	Pump	Kit	
\$800									\$

GfG reserves the right to change part numbers, prices and/or technical information without notice. All rights reserved to correct typographical errors. All prices are listed in US dollars.



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# G888/G999 Product Selection Guide



Sensors	G888C	G999C	G999P	G999E
Number of channels	1 - 7	1 - 7	1 - 7	1 - 7
Max. # of EC toxic channels	4	4	4	5
ccLEL	•	•		
IR LEL / IR CO <sub>2</sub>	•	•	•	•
PID			•	
Oxygen sensor type/warranty	5-yr lead free	5-yr lead free	5-yr lead free	5-yr lead free

\* Lifetime warranty on instrument, electronics and non-consumed components. Batteries and components that are consumed in normal operation are warranted for two years.

Features	G888C	G999C	G999P	G999E
Size	68x100x39mm	68x136x39mm	68x136x39mm	68x136x39mm
Weight (depending on config.)	250-275g	350-395g	350-395g	350-395g
Standard Warranty: Instrument	Lifetime*	Lifetime*	Lifetime*	Lifetime*
Buttons	3	3	3	3
IP Rating	IP 67	IP 67	IP 67	IP 67
Housing	Polycarbonate w/ protective overmold	Polycarbonate w/ protective overmold	Polycarbonate w/ protective overmold	Polycarbonate w/ protective overmold
<b>DISPLAY</b>				
Top-mounted display	Yes	Yes	Yes	Yes
Display size	Large	Large	Large	Large
Built-in zoom function	Yes	Yes	Yes	Yes
Display changes color-alarm	Yes	Yes	Yes	Yes
<b>BATTERY AND CHARGING OPTIONS</b>				
Battery options	NiMH	NiMH	NiMH	NiMH
Interchangeable battery packs	No	No	No	No
Charging time (from full depletion)	6 hrs.	8 hrs.	8 hrs.	8 hrs.
Charging cradle (110-240 VAC)	Optional	Standard	Standard	Standard
USB charging via cal cap	Yes	No	No	No
Runtime (depending on sensor)	23 hours	47 hours	24 hours	47 hours
Built-in flashlight LED	Standard	Standard	Standard	Standard
<b>ALARMS</b>				
Audible alarm	103dB @30cm	103dB @30cm	103dB @30cm	103dB @30cm
Vibrating alarm	Yes	Yes	Yes	Yes
<b>DATALOGGING</b>				
Docking station available	Yes	Yes	Yes	Yes
Datalogging	30,000 intervals	30,000 intervals	30,000 intervals	30,000 intervals
<b>MOTORIZED REMOTE SAMPLING PUMP</b>				
Motorized pump	No	Integrated	Integrated	Integrated
Instrument with pump operable in diffusion mode	N/A	Yes	Yes	Yes
Pump draw	N/A	100 m	100 m	100 m
<b>REAL-TIME WIRELESS COMMUNICATION</b>				
Wireless (RF) interface	Yes 915 MHz ISM RF	Yes 915 MHz ISM RF	Yes 915 MHz ISM RF	Yes 915 MHz ISM RF
Wireless distance	300 m	300 m	300 m	300 m
Man down alarm	Yes	Yes	Yes	Yes

Images are not to scale

# G888 / G999

## Multi-gas Atmospheric Monitors



CH<sub>3</sub>SH, C<sub>2</sub>H<sub>4</sub>O, Cl<sub>2</sub>, ClO<sub>2</sub>, CO, CO<sub>2</sub>, COCl<sub>2</sub>, Combustible (Catalytic), Combustible (Infrared), H<sub>2</sub>, HCl, HCN, HF, H<sub>2</sub>S, NH<sub>3</sub>, NO, NO<sub>2</sub>, O<sub>2</sub>, PH<sub>3</sub>, PID (VOC), SiH<sub>4</sub>, SO<sub>2</sub>



The G888 and G999 unites technical innovation with attractive design. The outstanding performance, compact size and exceptionally light weight in this new generation of portable gas detection devices is where safety meets design. The G888 is the smallest and lightest 4-7 gas detector with wireless module in the industry.

The G888 and G999 (with integrated motorized sampling pump) are able to transfer the current measurement data using wireless technology, to a central device or an operations center. The visualization software displays all connected devices and their current statuses as well as motion alerting man-down status. This allows real-time monitoring from a central point on the safety status of each employee.

The integrated data logger records the measured gas concentrations and activated alarms over a period of up to 500 hours. The stored data can be downloaded and saved using the configurator software.

### Features:

- Monitor includes motion alert (man-down) warning
- LED flashlight standard
- Datalogging standard
- Highly configurable smart sensor design
- 300 m range wireless (if specified)
- Full featured, compact and rugged design

### G888 Standard Accessories:

- G888 detector
- Specified sensors
- Calibration cap
- Manual
- If specified wireless, USB ISM 915 MHz transceiver w/ software

### G999 Standard Accessories:

- G999 detector
- Specified sensors
- Integral motorized sampling pump
- Calibration cap
- Charging cradle w/110 power supply
- Manual
- If specified wireless, USB ISM 915 MHz transceiver w/ software

### Value Kit Configuration:

- All standard accessories
- Calibration gas
- Fixed flow regulator
- ABS carrying case

### Bump Kit Configuration:

- All standard accessories
- T-8 Torx driver
- Push button regulator
- Bump test gas cylinder quad mix
- Carrying case

### Optional Accessories:

- Datalogging kit
- Docking station
- Test station
- Calibration gas, kits and regulators

### G999S Calibration Kit

#### Configuration:

For triple range (99.9% vol, 50% LEL, 1% vol)

- All standard accessories
- Calibration gas
- Steel regulator (0.5 lpm)
- Tubing
- ABS carrying case



G999L Teamlink  
P/N 1991002

# G888 / G999

## Multi-gas Atmospheric Monitors



### Instrument Pricing - G888

#### G888C ccLEL Sensor Equipped Instruments

Base Part Number	Description	Price		
		Instrument Only	Value Kit add "K" to part number	Bump Kit add "E" to part number
G888C-13 01 02 00 00 10	5 year O <sub>2</sub> (lead free), 3 year cc LEL <sup>†</sup> , CO, H <sub>2</sub> S includes calibration cap, charging cradle with wall power adapter	\$ 1,745.00	\$ 2,315.00	\$ 2,160.00

#### G888C ccLEL Sensor Equipped Instruments - Wireless

Base Part Number	Description	Price		
		Instrument Only	Value Kit add "K" to part number	Bump Kit add "E" to part number
G888C-13 01 02 00 00 11	5 year O <sub>2</sub> (lead free), 3 year cc LEL <sup>†</sup> , CO, H <sub>2</sub> S with ISM 915 MHz RF <sup>*</sup> wireless, includes calibration cap, charging cradle with wall power adapter	\$ 2,000.00	\$ 2,570.00	\$ 2,415.00

### Instrument Pricing - G999

#### G999C ccLEL Sensor Equipped Instruments - with Integrated Sampling Pump

Base Part Number	Description	Price		
		Instrument Only	Value Kit add "K" to part number	Bump Kit add "E" to part number
G999C-13 01 02 00 00 10	5 year O <sub>2</sub> (lead free), 3 year cc LEL <sup>†</sup> , CO, H <sub>2</sub> S includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 2,360.00	\$ 2,930.00	\$ 2,775.00
G999C-13 01 02 00 00 11	5 year O <sub>2</sub> (lead free), 3 year cc LEL <sup>†</sup> , CO, H <sub>2</sub> S with ISM 915 MHz RF <sup>*</sup> wireless, includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 2,615.00	\$ 3,185.00	\$ 3,030.00

<sup>†</sup> cc LEL = Catalytic Combustion LEL Sensor.

<sup>\*</sup> Communication between an external computer and wireless instruments requires a USB Dongle and Visual-Software (P/N 1990202).

<sup>\*\*</sup> COSH is a combination CO and H<sub>2</sub>S sensors providing discrete readouts for each channel.

#### G999P Instruments (optional PID)

Base Part Number	Description	Price		
		Instrument Only	Value Kit add "K" to part number	Bump Kit add "E" to part number
G999P-03 03 00 00 00 61 20	5 year O <sub>2</sub> (lead free), 3 year COSH <sup>**</sup> , IR LEL includes calibration cap, charging cradle and wall power adapter	\$ 3,325.00	\$ 3,895.00	-
G999P-03 03 00 00 70 61 20	5 year O <sub>2</sub> (lead free), 3 year COSH <sup>**</sup> , PID (0-2,000 ppm), IR LEL includes calibration cap, charging cradle and wall power adapter	\$ 4,860.00	\$ 5,600.00	-

# G888 / G999

## Multi-gas Atmospheric Monitors



### Instrument Pricing - G999 - continued

#### G999P Instruments (optional PID) - with Integrated Sampling Pump

Base Part Number	Description	Price		
		Instrument Only	Value Kit add "K" to part number	Bump Kit add "E" to part number
G999P-03 03 00 00 00 61 10	5 year O <sub>2</sub> (lead free), 3 year COSH**, IR LEL includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe & tubing	\$ 3,695.00	\$ 4,265.00	\$ 4,110.00
G999P-03 01 02 00 00 61 10	5 year O <sub>2</sub> (lead free), CO, H <sub>2</sub> S, IR LEL includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe & tubing	\$ 3,710.00	\$ 4,280.00	\$ 4,125.00
G999P-03 03 00 00 70 61 10	5 year O <sub>2</sub> (lead free), 3 year COSH**, PID (0-2,000 ppm), IR LEL includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 5,230.00	\$ 5,970.00	-
G999P-03 01 02 00 70 61 10	5 year O <sub>2</sub> (lead free), CO, H <sub>2</sub> S, PID (0-2,000 ppm), IR LEL includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 5,245.00	\$ 5,985.00	-
G999P-03 01 02 29 70 61 10	5 year O <sub>2</sub> (lead free), CO, H <sub>2</sub> S, H <sub>2</sub> (0-2,000 ppm), PID (0-2,000 ppm), IR LEL includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 5,780.00	\$ 6,690.00	-
G999P-03 03 32 00 70 61 10	5 year O <sub>2</sub> (lead free), 3 year COSH**, H <sub>2</sub> (0-4%), PID (0-2,000 ppm), IR LEL includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 5,755.00	\$ 6,665.00	-
G999P-03 03 29 00 70 61 10	5 year O <sub>2</sub> (lead free), 3 year COSH**, H <sub>2</sub> (0-2,000 ppm) PID (0-2,000 ppm), IR LEL includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 5,765.00	\$ 6,675.00	-

† cc LEL = Catalytic Combustion LEL Sensor.

\* Communication between an external computer and wireless instruments requires a USB Dongle and Visual-Software (P/N 1990202).

\*\* COSH is a combination CO and H<sub>2</sub>S sensors providing discrete readouts for each channel.

#### G999P Instruments (optional PID) - Wireless

Base Part Number	Description	Price		
		Instrument Only	Value Kit add "K" to part number	Bump Kit add "E" to part number
G999P-03 03 00 00 00 61 21	5 year O <sub>2</sub> (lead free), 3 year COSH**, IR LEL with ISM 915 MHz RF *wireless, includes calibration cap, charging cradle & wall power adapter	\$ 3,580.00	\$ 4,150.00	\$ 3,995.00
G999P-03 03 00 00 70 61 21	5 year O <sub>2</sub> (lead free), 3 year COSH**, PID (0-2,000 ppm), IR LEL with ISM 915 MHz RF *wireless, includes calibration cap, charging cradle and wall power adapter	\$ 5,115.00	\$ 5,855.00	-

# G888 / G999

## Multi-gas Atmospheric Monitors



### Instrument Pricing - G999 - continued

#### G999P Instruments (optional PID) - Wireless with Integrated Sampling Pump

Base Part Number	Description	Price		
		Instrument Only	Value Kit add "K" to part number	Bump Kit add "E" to part number
G999P-03 03 00 00 00 61 11	5 year O <sub>2</sub> (lead free), 3 year COSH**, IR LEL with ISM 915 MHz RF *wireless, includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 3,950.00	\$ 4,520.00	\$ 4,365.00
G999P-03 03 00 00 70 61 11	5 year O <sub>2</sub> (lead free), 3 year COSH**, PID (0-2,000 ppm), IR LEL with ISM 915 MHz RF *wireless, includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 5,485.00	\$ 6,225.00	-
G999P-03 03 32 00 70 61 11	5 year O <sub>2</sub> (lead free), 3 year COSH**, H <sub>2</sub> (0-4%), PID (0-2,000 ppm), IR LEL with ISM 915 MHz RF *wireless, includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 6,010.00	\$ 6,920.00	-
G999P-03 03 29 00 70 61 11	5 year O <sub>2</sub> (lead free), 3 year COSH**, H <sub>2</sub> (0-2,000 ppm), PID (0-2,000 ppm), IR LEL with ISM 915 MHz RF *wireless, includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe & tubing	\$ 6,020.00	\$ 6,930.00	-

\* Communication between an external computer and wireless instruments requires a USB Dongle and Visual-Software (P/N 1990202).

\*\* COSH is a combination CO and H<sub>2</sub>S sensors providing discrete readouts for each channel.

#### G999S Instruments - with Integrated Sampling Pump

Base Part Number	Description	Price
		Instrument Only
G999S-30 00 00 00 00 10	CH <sub>4</sub> (LEL/vol/ppm) triple range, includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe & tubing	\$ 2,790.00
G999S-31 00 00 00 00 10	5 year O <sub>2</sub> (lead free), CH <sub>4</sub> (LEL/vol/ppm) triple range, includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe & tubing	\$ 2,850.00
G999S-31 01 02 00 00 10	5 year O <sub>2</sub> (lead free), CH <sub>4</sub> (LEL/vol/ppm) triple range, CO, H <sub>2</sub> S includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 2,990.00

\* Communication between an external computer and wireless instruments requires a USB Dongle and Visual-Software (P/N 1990202).

#### G999S Instruments - Wireless

Base Part Number	Description	Price
		Instrument Only
G999S-30 00 00 00 00 11	CH <sub>4</sub> (LEL/vol/ppm) triple range, with ISM 915 MHz RF *wireless, includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 3,005.00
G999S-31 00 00 00 00 11	5 year O <sub>2</sub> (lead free), CH <sub>4</sub> (LEL/vol/ppm) triple range, with ISM 915 MHz RF *wireless, includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 3,060.00
G999S-31 01 02 00 00 11	5 year O <sub>2</sub> (lead free), CH <sub>4</sub> (LEL/vol/ppm) triple range, CO, H <sub>2</sub> S, with ISM 915 MHz RF *wireless, includes calibration cap, charging cradle, wall power adapter, integrated pump, sample probe and tubing	\$ 3,200.00



# G888 / G999

## Multi-gas Atmospheric Monitors



### Chargers and Batteries

Part Number	Description	Price
1990301	Battery Pack, Rechargeable NiMH for G999C	\$ 365.00
1990302	Battery Pack, Rechargeable NiMH for G999E	\$ 365.00
1990303	Battery Pack, Rechargeable NiMH for G999P	\$ 365.00
1990323	Battery Pack, Rechargeable NiMH for G999S	\$ 365.00
1990401	Battery Pack, Rechargeable NiMH for G888C	\$ 225.00
1888-220	Charging cradle (includes 110-240 V AC power supply) for G888 / G999	\$ 400.00
1990220	Charging cradle (power supply not included) for G888 / G999	\$ 375.00
4001-650	Power Supply for Charger, 110 V AC (wall cube style)	\$ 45.00
4001-650V	Power supply for Charger, 12 V DC (cigarette lighter style) (P/N1990220 is required for use)	\$ 75.00
4001-650F	Power Supply for Charger for fire vehicles	\$ 75.00
1888-440P	Vehicle charging kit for G888 / G999 includes charging cradle and 12 V DC power supply	\$ 420.00

### Docking and Test Stations

Part Number	Description	Price
1450-406	DS400 Docking Station for G888 / G999	\$ 2,565.00
1450-407	DS404 Four Inlet Multi-gas Docking Station for G888 / G999	\$ 4,215.00
1450-406R	DS400 Docking Station for G888 / G999 includes regulator P/N 1419-216	\$ 2,920.00
1450-407R1	DS404 Four Inlet Multi-gas Docking Station for G888 / G999 includes regulator P/N 1419-216	\$ 4,615.00
1888-701	TX400 Test Station for G888 / G999***	\$ 1,035.00
1888-711	TX400 Test Station for G888 / G999 with charging function***	\$ 1,285.00

\*\*\* Operation will require the use of a push button regulator.

### Calibration Gas

Part Number	LEL (CH <sub>4</sub> )	O <sub>2</sub>	CO	H <sub>2</sub> S	CO <sub>2</sub>	SO <sub>2</sub>	Size	Balance	Cylinder	Price
7802-030	50%	18%	200 ppm	20 ppm	-	-	44 L	N <sub>2</sub>	Aluminum	\$ 160.00
7804-030	50%	18%	200 ppm	20 ppm	-	-	116 L	N <sub>2</sub>	Aluminum	\$ 405.00
7801-030*	50%	10%	200 ppm	40 ppm	-	-	7 L	N <sub>2</sub>	Aluminum	\$ 195.00
7803-014	Isobutylene (C <sub>4</sub> H <sub>8</sub> ) 100 ppm concentration						105 L	Air	Aluminum	\$ 185.00
7802-014	Methane (CH <sub>4</sub> ) 50% LEL concentration						34 L	Air	Aluminum	\$ 170.00
7802-038	Methane (CH <sub>4</sub> ) 99.9% vol. concentration						34 L	Air	Aluminum	\$ 170.00
7802-075	Methane (CH <sub>4</sub> ) 1% vol. (10,000 ppm) or 20% LEL concentration						34 L	Air	Aluminum	\$ 170.00

\* ecoBump all in one test gas, 1200 psi cylinder, approximately 250 three second bumps, use for qualitative bump test only - not for use to calibrate instruments. Please note: Shipping HAZMAT requires license and additional shipping costs. Ground shipping of ecoBump is not considered HAZMAT.

### Regulators

Part Number	Description	Flow	Gauge	On/Off	Cylinders	Exotic gases**	Price
2603-400†	Regulator, Fixed Flow, push button	0.5 lpm	Yes	Yes	103 L / 105 L Steel & any Aluminum	No	\$ 280.00
2603-025	Regulator, Fixed Flow	0.5 lpm	Yes	Yes		No	\$ 285.00
2603-026	Regulator, Fixed Flow	1 lpm	Yes	Yes		Yes	\$ 285.00
1419-216	Regulator, Demand Flow – with inside thread C10 connection	3 lpm max	Yes	No		No	\$ 450.00

† For use with P/N 7801-030

\*\* HCl/Cl<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>O, ClO<sub>2</sub>, HF

# G888 / G999

## Multi-gas Atmospheric Monitors



### Calibration Kits and Accessories

Part Number	Description	Price
7776-888	Calibration Kit <sup>‡</sup> without gas, includes calibration cap P/N 1990210 and regulator P/N 2603-025	\$ 430.00
1990202	RF Transceiver Dongle, wireless USB ISM 915 MHz and Visual-Software communication software, inserts into USB port of external computer (requires Microsoft Windows)	\$ 1,725.00
1991-002	G999L Teamlink for 10 users with US radio module (915 MHz) includes charging cradle and wall power adapter	\$ 2,065.00
1990205	Datalogging kit, includes data interface cable, smart cap and report generating software	\$ 195.00
1990297	G888 Protector case with carry strap	\$ 90.00
1990298	G999 Protector case with carry strap	\$ 125.00
1990305	Metal pump inlet with one filter for G999	\$ 30.00
1990306	Replacement G999 filter (pack of 10)	\$ 100.00
1888-EXT5	Extended 5-year sensor warranty on all sensors (O <sub>2</sub> <sup>***</sup> , LEL, CO, H <sub>2</sub> S)	\$ 500.00

<sup>‡</sup> All Calibration Kits include ABS carrying case, regulator, smart cap and tubing.

<sup>\*\*\*</sup> O<sub>2</sub> is standard 5 year sensor warranty.



RF Transceiver Dongle  
P/N 1990202



Visual Software

### Replacement Sensors

#### 5-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1990718	Oxygen (O <sub>2</sub> ) (4OXL Lead Free) (Standard)	0.1% vol.	0 - 25% vol.	\$ 215.00

#### 3-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1990716	Oxygen (O <sub>2</sub> ) (O2-A3)	0.1% vol.	0 - 25% vol.	\$ 215.00
1990851	Combustible (LEL) (Standard)	0.5% LEL	0 - 100% LEL	\$ 285.00
1990705	Carbon monoxide (CO) (Standard)	1 ppm	0 - 500 ppm*	\$ 280.00
1990700	Hydrogen sulfide (H <sub>2</sub> S) (Standard)	0.1 ppm	0 - 100.0 ppm**	\$ 280.00
1990710	COSH – Dual Channel (Standard)	CO 1 ppm H <sub>2</sub> S 0.5 ppm	0 - 500 ppm 0 - 100.0 ppm	\$ 430.00
1999-345	Sensor Pack (LEL, O <sub>2</sub> (3 yr), and COSH)	See above	See above	\$ 695.00

\* Can be configured for 0 - 1,000 ppm and 0 - 2,000 ppm using the menu settings on the instrument.

\*\* Can be configured for 0 - 50 ppm, 0 - 200 ppm and 0 - 500 ppm using the menu settings on the instrument.

#### 3-Year Sensor Warranty NDIR (Infrared)

Part Number	Sensors	Resolution	Range	Price
1990900	Carbon dioxide (CO <sub>2</sub> )	0.01% vol.	0 - 5% vol.	\$ 1,485.00
1990902	Carbon dioxide (CO <sub>2</sub> )	0.01% vol.	0 - 25% vol.	\$ 1,485.00
1990905	Combustible (LEL)	0.2% LEL	0 - 100% LEL	\$ 1,485.00
1990907	Combustible (% vol.)	0.01% vol.	0 - 100% vol.	\$ 1,485.00

# G888 / G999

## Multi-gas Atmospheric Monitors



### Replacement Sensors continued

#### 3-Year Sensor Warranty NDIR (Infrared)

Part Number	Sensors	Resolution	Range	Price
1990906	Combustible (LEL & % vol.)	Same as above (CO <sub>2</sub> = 0 - 5% vol.)		\$ 1,485.00
1990920	CO <sub>2</sub> and Combustible (LEL)			\$ 2,095.00
1990924	CO <sub>2</sub> and Combustible (LEL & % vol.)			\$ 2,095.00

#### 2-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1990715	Oxygen (O <sub>2</sub> )	0.1% vol.	0 - 25% vol.	\$ 225.00
1990850	Combustible (LEL) - Unfiltered†	0.5% LEL	0 - 100% LEL	\$ 290.00
1990725	Chlorine (Cl <sub>2</sub> )	0.1 ppm	0 - 10.0 ppm	\$ 630.00
1990730	Chlorine dioxide (ClO <sub>2</sub> )	0.01 ppm	0 - 2.00 ppm	\$ 815.00
1990775	Ethylene oxide (ETO) (C <sub>2</sub> H <sub>4</sub> O)	0.1 ppm	0 - 20.0 ppm	\$ 735.00
1990785	Hydrogen (H <sub>2</sub> )	2 ppm	0 - 2,000 ppm	\$ 700.00
1990790	Hydrogen (H <sub>2</sub> )	0.01% vol.	0 - 1.00% vol	\$ 735.00
1990795	Hydrogen (H <sub>2</sub> ) (Standard)	0.01% vol.	0 - 4.00% vol	\$ 735.00
1990760	Hydrogen cyanide (HCN)	0.5 ppm	0 - 50.0 ppm	\$ 435.00
1990871	Methane (CH <sub>4</sub> ) MK246-1 (CC/TC/SC - triple range sensor - LEL / vol. / ppm)			\$ 240.00
1990750	Nitrogen dioxide (NO <sub>2</sub> )	0.2 ppm	0 - 50.0 ppm*	\$ 435.00
1990745	Nitric oxide (NO)	1 ppm	0 - 100 ppm	\$ 595.00
1990770	Phosphine (PH <sub>3</sub> )	0.05 ppm	0 - 10.00 ppm	\$ 600.00
1990720	Sulfur dioxide (SO <sub>2</sub> )	0.05 ppm	0 - 10.00 ppm**	\$ 425.00
14602000	Photo Ionization (PID)†	0.5 ppm	0 - 2,000 ppm	\$ 1,695.00
5500-002	PID 10.6eV replacement lamp assembly for the above sensor*			\$ 380.00

\* Can be configured for 0 - 30 ppm and 0 - 100 ppm using the menu settings on the instrument.

\*\* Can be configured for 0 - 20 ppm, 0 - 50 ppm and 0 - 100 ppm using the menu settings on the instrument.

† PID sensor electronics warranty is for the lifetime of the sensor. The PID 10.6eV replacement lamp warranty is for 2 years.

‡ For use in the detection of large hydrocarbons.

#### 1-Year Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1990735	Ammonia (NH <sub>3</sub> )	1 ppm	0 - 300 ppm	\$ 660.00
1990740	Ammonia (NH <sub>3</sub> )	5 ppm	0 - 1,000 ppm	\$ 660.00
1990765	Hydrogen fluoride (HF)	0.1 ppm	0 - 10.0 ppm	\$ 870.00
1990755	Hydrogen chloride (HCl)	0.2 ppm	0 - 30.0 ppm	\$ 810.00
1990805	THT / Methyl Mercaptan (CH <sub>3</sub> SH)	0.1 ppm	0 - 25 ppm	\$ 690.00
1990780	Silane (SiH <sub>4</sub> )	0.1 ppm	0 - 40.0 ppm	\$ 1,165.00

#### 6-Month Sensor Warranty

Part Number	Sensors	Resolution	Range	Price
1990800	Phosgene (COCl <sub>2</sub> )	0.01 ppm	0 - 2.00 ppm	\$ 955.00

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# G888C Configurator

## Part Number Calculator

Prefix	Board Type	Sensors						Options		
		Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Cradle	Wireless	Kit
G888	C	-								

### The G888 "C" board supports:

- Electrochemical sensors EC1, EC2, EC3
- Catalytic LEL sensors CC
- IR and dual IR sensors IR1, IR2

## Board

### Board Type

C

The "C" board has a dedicated position for the catalytic (CC) LEL sensor and supports the various IR LEL / IR CO2 sensor options.

## Sensors

Sensor 1 (LEL Type)	Add
0 = Empty	\$ 0.00
1 = 4P-75C LEL 3 yr (standard) (Filtered)	\$ 135.00
2 = ccLEL 2 yr (Unfiltered)	\$ 135.00

Sensor 2 (O2 Type)	Add
0 = Empty	\$ 0.00
1 = O <sub>2</sub> 3 yr (O2-A3)	\$ 130.00
2 = O <sub>2</sub> 2 yr (40XV)	\$ 160.00
3 = O <sub>2</sub> 5 yr (40XLF) (standard) Lead-free	\$ 130.00

† Standard version.

† Select sensors 3 & 4 in numeric order. Leave sensor empty if only one sensor is selected.

\* Can only have a 3rd toxic sensor if sensor 2 position in the configurator for O2 is 0.

Please contact GfG for range, sensors or gases that are not listed.

\*\* G888 kits include a .5 lpm regulator, there is an additional charge if an additional regulator is required. Calibration gas is an additional charge, price varies depending on the gas. Contact GfG for further assistance.

Sensor	3†	4†	5†	Add
Empty	00	00	00	\$ 0.00
CO (500)	01	01	01	\$ 135.00
H <sub>2</sub> S (100)†	02	02	02	\$ 135.00
COSH	03	-	03	\$ 255.00
H <sub>2</sub> S (500)	05	05	05	\$ 135.00
SO <sub>2</sub> (10)	10	10	06	\$ 285.00
Cl <sub>2</sub> (10)	12	12	12	\$ 420.00
ClO <sub>2</sub> (2)	14	14	14	\$ 660.00
NH <sub>3</sub> (300)	16	16	16	\$ 410.00
NH <sub>3</sub> (1000)†	18	18	18	\$ 410.00
HCN (50)	20	20	20	\$ 315.00
HCl (30)	21	21	21	\$ 655.00
PH <sub>3</sub> (10)	22	22	22	\$ 435.00
NO (100)	23	23	23	\$ 285.00
NO <sub>2</sub> (50)	24	24	24	\$ 315.00
C <sub>2</sub> H <sub>4</sub> O (ETO) (20)	26	26	26	\$ 315.00
HF (10)	27	27	27	\$ 715.00
H <sub>2</sub> (2,000)	29	29	29	\$ 535.00
CO (1,000)	31	31	31	\$ 135.00
H <sub>2</sub> (4% vol.)†	32	32	32	\$ 525.00
SiH <sub>4</sub> (40)	35	35	35	\$ 1,045.00
H <sub>2</sub> (1% vol.)	36	36	36	\$ 525.00
COCl <sub>2</sub> (2)	39	39	3	\$ 800.00
THT (25)	40	40	40	\$ 685.00
NO <sub>2</sub> (30)	41	41	41	\$ 315.00
SO <sub>2</sub> (100)	44	44	44	\$ 285.00
CO (2,000)	50	50	50	\$ 135.00
H <sub>2</sub> S (50)	51	51	51	\$ 135.00
H <sub>2</sub> S (200)	52	52	52	\$ 135.00
NO <sub>2</sub> (100)	53	53	53	\$ 285.00
SO <sub>2</sub> (20)	54	54	54	\$ 285.00
SO <sub>2</sub> (50)	55	55	55	\$ 285.00

Sensor 6 (IR Type)	Add
00 = Empty	\$ 0.00
60 = CO <sub>2</sub> (0-5%)†	\$ 1,485.00
61 = LEL (0-100%)	\$ 1,485.00
63 = LEL (0-100%) & % vol. (0-100%)	\$ 1,485.00
64 = CO <sub>2</sub> (0-5%) & LEL (0-100%) Dual channel	\$ 2,095.00
66 = CO <sub>2</sub> (0-5%), LEL (0-100%) & % vol. (0-100%) Triple channel	\$ 2,095.00
67 = CO <sub>2</sub> (0-25%)	\$ 1,485.00
68 = CO <sub>2</sub> (0-25%) & LEL (0-100%)	\$ 2,095.00

† Standard version.

## Options

Cradle Options	Add
1 = Cradle Included	\$ 185.00

Wireless Options	Add
0 = None	\$ 0.00
1 = USA 915MHz ISM RF	\$ 255.00
2 = European 868MHz ISM RF	\$ 255.00

Kit Options	Add
Leave blank = None	\$ 0.00
K = Value Kit (no gas)**	\$ 410.00
C = Confined Space Kit (no gas)**	\$ 555.00
S = Carrying Case	\$ 140.00
E = Bump Kit (quad mix only)	\$ 415.00

## Price Calculator

Base (G888C)	Sensors						Options			Total
	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Cradle	Wireless	Kit	
\$1,025										\$

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# G999C Configurator

## Part Number Calculator

Prefix	Board Type	Sensors								Options		
		Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6			Cradle /Pump	Wireless	Kit
G999	C	-										

### The G999 "C" board supports:

- Electrochemical sensors
- Catalytic LEL sensors
- IR and dual IR sensors

EC1, EC2, EC3  
CC  
IR1, IR2/IR3

## Board

Board Type
C

The "C" board has a dedicated position for the catalytic (CC) LEL sensor and supports the various IR sensor options.

## Sensors

Sensor 1 (LEL Type)	Add
0 = Empty	\$ 0.00
1 = 4P-75C LEL 3 yr (standard) (Filtered)	\$ 135.00
2 = ccLEL 2 yr (Unfiltered)	\$ 135.00

Sensor 2 (O2 Type)	Add
0 = Empty	\$ 0.00
1 = O <sub>2</sub> 3 yr (O2-A3)	\$ 130.00
2 = O <sub>2</sub> 2 yr (4OXV)	\$ 160.00
3 = O <sub>2</sub> 5 yr (4OXLf) (standard) Lead-free	\$ 130.00

† Standard version.

† Select sensors 3 & 4 in numeric order. Leave sensor empty if only one sensor is selected.

\* Can only have a 3rd toxic sensor if sensor 2 position in the configurator for O2 is 0.

Please contact GfG for range, sensors or gases that are not listed.

\*\* G999 kits include a .5 lpm regulator, there is an additional charge if an additional regulator is required. Calibration gas is an additional charge, price varies depending on the gas. Contact GfG for further assistance.

Sensor	3†	4†	5†	Add
Empty	00	00	00	\$ 0.00
CO (500)	01	01	01	\$ 135.00
H <sub>2</sub> S (100)†	02	02	02	\$ 135.00
COSH	03	-	03	\$ 255.00
H <sub>2</sub> S (500)	05	05	05	\$ 135.00
SO <sub>2</sub> (10)	10	10	06	\$ 285.00
Cl <sub>2</sub> (10)	12	12	12	\$ 420.00
ClO <sub>2</sub> (2)	14	14	14	\$ 660.00
NH <sub>3</sub> (300)	16	16	16	\$ 410.00
NH <sub>3</sub> (1000)†	18	18	18	\$ 410.00
HCN (50)	20	20	20	\$ 315.00
HCl (30)	21	21	21	\$ 655.00
PH <sub>3</sub> (10)	22	22	22	\$ 435.00
NO (100)	23	23	23	\$ 285.00
NO <sub>2</sub> (50)	24	24	24	\$ 315.00
C <sub>2</sub> H <sub>4</sub> O (ETO) (20)	26	26	26	\$ 315.00
HF (10)	27	27	27	\$ 715.00
H <sub>2</sub> (2,000)	29	29	29	\$ 535.00
CO (1,000)	31	31	31	\$ 135.00
H <sub>2</sub> (4% vol.)†	32	32	32	\$ 525.00
SiH <sub>4</sub> (40)	35	35	35	\$ 1,045.00
H <sub>2</sub> (1% vol.)	36	36	36	\$ 525.00
COCl <sub>2</sub> (2)	39	39	3	\$ 800.00
THT (25)	40	40	40	\$ 685.00
NO <sub>2</sub> (30)	41	41	41	\$ 285.00
SO <sub>2</sub> (100)	44	44	44	\$ 285.00
CO (2,000)	50	50	50	\$ 135.00
H <sub>2</sub> S (50)	51	51	51	\$ 135.00
H <sub>2</sub> S (200)	52	52	52	\$ 135.00
NO <sub>2</sub> (100)	53	53	53	\$ 315.00
SO <sub>2</sub> (20)	54	54	54	\$ 285.00
SO <sub>2</sub> (50)	55	55	55	\$ 285.00

Sensor 6 (IR Type)	Add
00 = Empty	\$ 0.00
60 = CO <sub>2</sub> (0-5%)†	\$ 1,485.00
61 = LEL (0-100%)	\$ 1,485.00
63 = LEL (0-100%) & % vol. (0-100%)	\$ 1,485.00
64 = CO <sub>2</sub> (0-5%) & LEL (0-100%) Dual channel	\$ 2,095.00
66 = CO <sub>2</sub> (0-5%), LEL (0-100%) & % vol. (0-100%) Triple channel	\$ 2,095.00
67 = CO <sub>2</sub> (0-25%)	\$ 1,485.00
68 = CO <sub>2</sub> (0-25%) & LEL (0-100%)	\$ 2,095.00

† Standard version.

## Options

Cradle/Pump Options	Add
0 = None	\$ 0.00
1 = Cradle & Pump Included (standard)	\$ 555.00
2 = Cradle Only	\$ 185.00
3 = Pump Only	\$ 380.00

Wireless Options	Add
0 = None	\$ 0.00
1 = USA 915MHz ISM RF	\$ 255.00
2 = European 868MHz ISM RF	\$ 255.00

Kit Options	Add
Leave blank = None	\$ 0.00
K = Value Kit (no gas)**	\$ 410.00
C = Confined Space Kit (no gas)**	\$ 555.00
S = Carrying Case	\$ 140.00
E = Bump Kit (quad mix only)	\$ 415.00

## Price Calculator

Base (G999C)	Sensors						Options			Total
	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Cradle /Pump	Wireless	Kit	
\$1,270										\$

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# G999P Configurator

## Part Number Calculator

Prefix	Board Type		Sensors											Options		
			Sensor 1	Sensor 2	Sensor 3		Sensor 4		Sensor 5		Sensor 6		Sensor 7		Cradle /Pump	Wireless
G999	P	-	0													

The G999 "P" board supports:	
• Electrochemical sensors	EC1, EC2, EC3
• Photoionization sensor	PID
• IR and dual IR sensors	IR1, IR2/IR3

## Board

Board Type
P

The "P" board has a dedicated position for the PID sensor and supports the various IR sensor options. The "P" board is the only G999 board that can be used with PID sensors.

## Sensors

Sensor 1 (LEL Type)	Add
0 = Empty	\$ 0.00

The "P" board does not support ccLEL; therefore, sensor slot 1 will always be a "0".

Sensor 2 (O2 Type)	Add
0 = Empty	\$ 0.00
1 = O <sub>2</sub> 3 yr (O2-A3)	\$ 135.00
2 = O <sub>2</sub> 2 yr (4OXV)	\$ 160.00
3 = O <sub>2</sub> 5 yr (4OXLf) (standard) Lead-free	\$ 130.00

† Standard version.

† Select sensors 3 & 4 in numeric order. Leave sensor empty if only one sensor is selected.

\* Can only have a 3rd toxic sensor if sensor 2 position in the configurator for O2 is 0.

Please contact GfG for range, sensors or gases that are not listed.

\*\* G999 kits include a .5 lpm regulator, there is an additional charge if an additional regulator is required. Calibration gas is an additional charge, price varies depending on the gas. Contact GfG for further assistance.

Sensor	3†	4†	5†	Add
Empty	00	00	00	\$ 0.00
CO (500)	01	01	01	\$ 135.00
H <sub>2</sub> S (100)†	02	02	02	\$ 135.00
COSH	03	-	03	\$ 255.00
H <sub>2</sub> S (500)	05	05	05	\$ 135.00
SO <sub>2</sub> (10)	10	10	06	\$ 285.00
Cl <sub>2</sub> (10)	12	12	12	\$ 420.00
ClO <sub>2</sub> (2)	14	14	14	\$ 660.00
NH <sub>3</sub> (300)	16	16	16	\$ 410.00
NH <sub>3</sub> (1000)†	18	18	18	\$ 410.00
HCN (50)	20	20	20	\$ 315.00
HCl (30)	21	21	21	\$ 655.00
PH <sub>3</sub> (10)	22	22	22	\$ 435.00
NO (100)	23	23	23	\$ 285.00
NO <sub>2</sub> (50)	24	24	24	\$ 315.00
C <sub>2</sub> H <sub>4</sub> O (ETO) (20)	26	26	26	\$ 315.00
HF (10)	27	27	27	\$ 715.00
H <sub>2</sub> (2,000)	29	29	29	\$ 535.00
CO (1,000)	31	31	31	\$ 135.00
H <sub>2</sub> (4% vol.)†	32	32	32	\$ 525.00
SiH <sub>4</sub> (40)	35	35	35	\$ 1,045.00
H <sub>2</sub> (1% vol.)	36	36	36	\$ 525.00
COCl <sub>2</sub> (2)	39	39	3	\$ 800.00
THT (25)	40	40	40	\$ 685.00
NO <sub>2</sub> (30)	41	41	41	\$ 285.00
SO <sub>2</sub> (100)	44	44	44	\$ 285.00
CO (2,000)	50	50	50	\$ 135.00
H <sub>2</sub> S (50)	51	51	51	\$ 135.00
H <sub>2</sub> S (200)	52	52	52	\$ 135.00
NO <sub>2</sub> (100)	53	53	53	\$ 315.00
SO <sub>2</sub> (20)	54	54	54	\$ 285.00
SO <sub>2</sub> (50)	55	55	55	\$ 285.00

Sensor 6 (PID Type)	Add
00 = Empty	\$ 0.00
70 = PID (2,000)	\$ 1,535.00

Sensor 7 (IR Type)	Add
00 = Empty	\$ 0.00
60 = CO <sub>2</sub> (0-5%)†	\$ 1,485.00
61 = LEL (0-100%)	\$ 1,485.00
63 = LEL (0-100%) & % vol. (0-100%)	\$ 1,485.00
64 = CO <sub>2</sub> (0-5%) & LEL (0-100%) Dual channel	\$ 2,095.00
66 = CO <sub>2</sub> (0-5%), LEL (0-100%) & % vol. (0-100%) Triple channel	\$ 2,095.00
67 = CO <sub>2</sub> (0-25%)	\$ 1,485.00
68 = CO <sub>2</sub> (0-25%) & LEL (0-100%)	\$ 2,095.00

† Standard version.

## Options

Cradle/Pump Options	Add
0 = None	\$ 0.00
1 = Cradle & Pump Included (standard)	\$ 555.00
2 = Cradle Only	\$ 185.00
3 = Pump Only	\$ 380.00

Wireless Options	Add
0 = None	\$ 0.00
1 = USA 915MHz ISM RF	\$ 255.00
2 = European 868MHz ISM RF	\$ 255.00

Kit Options	Add
Leave blank = None	\$ 0.00
K = Value Kit (no gas)**	\$ 410.00
C = Confined Space Kit (no gas)**	\$ 555.00
S = Carrying Case	\$ 140.00
E = Bump Kit (quad mix only)	\$ 415.00

## Price Calculator

Base (G999P)	Sensors							Options			Total
	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Cradle /Pump	Wireless	Kit	
\$1,270											\$

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# G999E Configurator

## Part Number Calculator

Prefix	Board Type	Sensors												Options		
		Sensor 1	Sensor 2	Sensor 3		Sensor 4		Sensor 5		Sensor 6		Sensor 7		Cradle /Pump	Wireless	Kit
G999	E -	0														

The G999 "E" board supports:	
• Electrochemical sensors	EC1, EC2, EC3, EC4
• IR and dual IR sensors	IR1, IR2/IR3

## Board

Board Type
E

The "E" board has a fourth position for a toxic EC sensor and supports the various IR sensor options. The "E" board is the *only* G999 board that can have a fourth toxic sensor (if the O2 slot is empty).

## Sensors

Sensor 1 (LEL Type)	Add
0 = Empty	\$ 0.00

The "E" board does not support cLEL; therefore, sensor slot 1 will always be a "0".

Sensor 2 (O2 Type)	Add
0 = Empty <sup>†</sup>	\$ 0.00
1 = O <sub>2</sub> 3 yr (O2-A3)	\$ 135.00
2 = O <sub>2</sub> 2 yr (4OXV)	\$ 170.00
3 = O <sub>2</sub> 5 yr (4OXLF) (standard) Lead-free	\$ 130.00

<sup>†</sup> Standard version.

<sup>†</sup> Select sensors 3 & 4 in numeric order. Leave sensor empty if only one sensor is selected.

\* Can only have a 4th toxic sensor if sensor 2 position in the configurator for O2 is 0.

Please contact GfG for range, sensors or gases that are not listed.

\*\* G999 kits include a .5 lpm regulator, there is an additional charge if an additional regulator is required. Calibration gas is an additional charge, price varies depending on the gas. Contact GfG for further assistance.

Sensor	3 <sup>†</sup>	4 <sup>†</sup>	5 <sup>*</sup>	6 <sup>‡</sup>	Add
Empty	00	00	00	00	\$ 0.00
CO (500)	01	01	01	01	\$ 135.00
H <sub>2</sub> S (100) <sup>†</sup>	02	02	02	02	\$ 135.00
COSH	03	-	03	03	\$ 255.00
H <sub>2</sub> S (500)	05	05	05	05	\$ 135.00
SO <sub>2</sub> (10)	10	10	06	06	\$ 285.00
Cl <sub>2</sub> (10)	12	12	12	12	\$ 420.00
ClO <sub>2</sub> (2)	14	14	14	14	\$ 660.00
NH <sub>3</sub> (300)	16	16	16	16	\$ 410.00
NH <sub>3</sub> (1000) <sup>†</sup>	18	18	18	18	\$ 410.00
HCN (50)	20	20	20	20	\$ 315.00
HCl (30)	21	21	21	21	\$ 655.00
PH <sub>3</sub> (10)	22	22	22	22	\$ 435.00
NO (100)	23	23	23	23	\$ 285.00
NO <sub>2</sub> (50)	24	24	24	24	\$ 315.00
C <sub>2</sub> H <sub>4</sub> O (ETO) (20)	26	26	26	26	\$ 315.00
HF (10)	27	27	27	27	\$ 715.00
H <sub>2</sub> (2,000)	29	29	29	29	\$ 535.00
CO (1,000)	31	31	31	31	\$ 135.00
H <sub>2</sub> (4% vol.) <sup>†</sup>	32	32	32	32	\$ 525.00
SiH <sub>4</sub> (40)	35	35	35	35	\$ 1,045.00
H <sub>2</sub> (1% vol.)	36	36	36	36	\$ 525.00
COCl <sub>2</sub> (2)	39	39	39	39	\$ 800.00
THT (25)	40	40	40	40	\$ 685.00
NO <sub>2</sub> (30)	41	41	41	41	\$ 285.00
SO <sub>2</sub> (100)	44	44	44	44	\$ 285.00
CO (2,000)	50	50	50	50	\$ 135.00
H <sub>2</sub> S (50)	51	51	51	51	\$ 135.00
H <sub>2</sub> S (200)	52	52	52	52	\$ 135.00
NO <sub>2</sub> (100)	53	53	53	53	\$ 315.00
SO <sub>2</sub> (20)	54	54	54	54	\$ 285.00
SO <sub>2</sub> (50)	55	55	55	55	\$ 285.00

<sup>‡</sup> If no O<sub>2</sub> sensor is selected for sensor position 2, then sensor position 6 is available.

Sensor 7 (IR Type)	Add
00 = Empty	\$ 0.00
60 = CO <sub>2</sub> (0-5%) <sup>†</sup>	\$ 1,485.00
61 = LEL (0-100%)	\$ 1,485.00
63 = LEL (0-100%) & % vol. (0-100%)	\$ 1,485.00
64 = CO <sub>2</sub> (0-5%) & LEL (0-100%) Dual channel	\$ 2,095.00
66 = CO <sub>2</sub> (0-5%), LEL (0-100%) & % vol. (0-100%) Triple channel	\$ 2,095.00
67 = CO <sub>2</sub> (0-25%)	\$ 1,485.00
68 = CO <sub>2</sub> (0-25%) & LEL (0-100%)	\$ 2,095.00

<sup>†</sup> Standard version.

## Options

Cradle/Pump Options	Add
0 = None	\$ 0.00
1 = Cradle & Pump Included (standard)	\$ 555.00
2 = Cradle Only	\$ 185.00
3 = Pump Only	\$ 380.00

Wireless Options	Add
0 = None	\$ 0.00
1 = USA 915MHz ISM RF	\$ 255.00
2 = European 868MHz ISM RF	\$ 255.00

Kit Options	Add
Leave blank = None	\$ 0.00
K = Value Kit (no gas)**	\$ 410.00
C = Confined Space Kit (no gas)**	\$ 555.00
S = Carrying Case	\$ 140.00
E = Bump Kit (quad mix only)	\$ 415.00

## Price Calculator

Base (G999E)	Sensors							Options			Total
	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Cradle /Pump	Wireless	Kit	
\$1,270											\$

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# G999S Configurator

## Part Number Calculator

Prefix	Board Type	Sensors								Options		
		Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6			Cradle /Pump	Wireless	Kit
G999	S	-										

### The G999 "C" board supports:

- Electrochemical sensors
- Catalytic LEL sensors
- IR and dual IR sensors

EC1, EC2, EC3  
CC/TC/SC<sup>2</sup> or CC/TC<sup>1</sup>  
IR1, IR2/IR3

## Board

### Board Type

S

The "S" board features a slot for triple range sensors. Not only does it measure the common range of 0-100% LEL (0-4.4% vol.), but also in 0-10,000 ppm or 0-100 % vol. ranges.

## Sensors

Sensor 1 (LEL Type)	Add
0 = Empty	\$ 0.00
3 = CC/TC/SC <sup>2</sup> (standard) (Filtered)	\$ 175.00
4 = CC/TC <sup>1</sup> (Filtered)	\$ 135.00

Sensor 2 (O2 Type)	Add
0 = Empty	\$ 0.00
1 = O <sub>2</sub> 3 yr (O2-A3)	\$ 130.00
2 = O <sub>2</sub> 2 yr (4OXV)	\$ 160.00
3 = O <sub>2</sub> 5 yr (4OXLF) (standard) Lead-free	\$ 130.00

† Standard version.

† Select sensors 3 & 4 in numeric order. Leave sensor empty if only one sensor is selected.

\* Can only have a 3rd toxic sensor if sensor 2 position in the configurator for O2 is 0.

Please contact GfG for range, sensors or gases that are not listed.

\*\* G999 kits include a .5 lpm regulator, there is an additional charge if an additional regulator is required. Calibration gas is an additional charge, price varies depending on the gas. Contact GfG for further assistance.

Sensor	3†	4†	5†	Add
Empty	00	00	00	\$ 0.00
CO (500)	01	01	01	\$ 135.00
H <sub>2</sub> S (100)†	02	02	02	\$ 135.00
COSH	03	-	03	\$ 255.00
H <sub>2</sub> S (500)	05	05	05	\$ 135.00
SO <sub>2</sub> (10)	10	10	06	\$ 285.00
Cl <sub>2</sub> (10)	12	12	12	\$ 420.00
ClO <sub>2</sub> (2)	14	14	14	\$ 660.00
NH <sub>3</sub> (300)	16	16	16	\$ 410.00
NH <sub>3</sub> (1000)†	18	18	18	\$ 410.00
HCN (50)	20	20	20	\$ 315.00
HCl (30)	21	21	21	\$ 655.00
PH <sub>3</sub> (10)	22	22	22	\$ 435.00
NO (100)	23	23	23	\$ 285.00
NO <sub>2</sub> (50)	24	24	24	\$ 315.00
C <sub>2</sub> H <sub>4</sub> O (ETO) (20)	26	26	26	\$ 315.00
HF (10)	27	27	27	\$ 715.00
H <sub>2</sub> (2,000)	29	29	29	\$ 535.00
CO (1,000)	31	31	31	\$ 135.00
H <sub>2</sub> (4% vol.)†	32	32	32	\$ 525.00
SiH <sub>4</sub> (40)	35	35	35	\$ 1,045.00
H <sub>2</sub> (1% vol.)	36	36	36	\$ 525.00
COCl <sub>2</sub> (2)	39	39	3	\$ 800.00
THT (25)	40	40	40	\$ 685.00
NO <sub>2</sub> (30)	41	41	41	\$ 285.00
SO <sub>2</sub> (100)	44	44	44	\$ 285.00
CO (2,000)	50	50	50	\$ 135.00
H <sub>2</sub> S (50)	51	51	51	\$ 135.00
H <sub>2</sub> S (200)	52	52	52	\$ 135.00
NO <sub>2</sub> (100)	53	53	53	\$ 315.00
SO <sub>2</sub> (20)	54	54	54	\$ 285.00
SO <sub>2</sub> (50)	55	55	55	\$ 285.00

Sensor 6 (IR Type)	Add
00 = Empty	\$ 0.00
60 = CO <sub>2</sub> (0-5%)†	\$ 1,485.00
61 = LEL (0-100%)	\$ 1,485.00
63 = LEL (0-100%) & % vol. (0-100%)	\$ 1,485.00
64 = CO <sub>2</sub> (0-5%) & LEL (0-100%) Dual channel	\$ 2,095.00
66 = CO <sub>2</sub> (0-5%), LEL (0-100%) & % vol. (0-100%) Triple channel	\$ 2,095.00
67 = CO <sub>2</sub> (0-25%)	\$ 1,485.00
68 = CO <sub>2</sub> (0-25%) & LEL (0-100%)	\$ 2,095.00

† Standard version.

## Options

Cradle/Pump Options	Add
0 = None	\$ 0.00
1 = Cradle & Pump Included (standard)	\$ 555.00
2 = Cradle Only	\$ 185.00
3 = Pump Only	\$ 380.00

Wireless Options	Add
0 = None	\$ 0.00
1 = USA 915MHz ISM RF	\$ 255.00
2 = European 868MHz ISM RF	\$ 255.00

Kit Options	Add
Leave blank = None	\$ 0.00
K = Value Kit (no gas)**	\$ 410.00
C = Confined Space Kit (no gas)**	\$ 555.00
S = Carrying Case	\$ 140.00
E = Bump Kit (quad mix only)	\$ 415.00

## Price Calculator

Base (G999S)	Sensors						Options			Total
	Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Cradle /Pump	Wireless	Kit	
\$1,270										\$

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# DS400/DS404 and TS400/TX400

## Docking Stations and Test Stations



DS400  
Docking Station



TS400  
Test Station

The operation of the DS400 or the DS404 (Multi-inlet) docking station couldn't be any easier. Simply put the instrument in the dock and the system will take over from there. The docking station automatically performs a full functional test including fresh air calibration, bump test, extensive sensor tests, alarm tests and performs an automatic AutoCal<sup>®</sup> calibration.

The DS404 four-inlet docking station has four test gas ports, eliminating the need to switch between gases. It also can be cascaded with multiple docking stations.

After all tests have been completed the docking station will automatically start the charging process of the detector or you may remove and begin using it.

The DS400 software includes a module to quickly print official calibration or bump test certificates.

The TS400 test station is designed to reduce the cost of ownership every step of the way. The push button regulator helps to sharply reduce the amount of gas required to test your instruments.

### Standard Accessories:

- Data software
- USB computer interface cable
- Power supply (TS400 requires charging option)
- Configuration software
- Download software
- Certificate generator
- Manual
- 2 GB SD memory card

### Optional Accessories:

- Demand flow regulator
- 12 V DC vehicle power adapter

Please note: Operation of the DS400 requires a demand flow regulator, the DS404 requires a demand flow regulator per cylinder of gas and the TS400 requires a push button regulator.

### Features:

- Fully automatic functional bump test and calibration (TS400 performs bump test only)
- Automatic alarm testing
- Automatic charging
- Automatic record keeping
- Simple pass / fail indication
- Up to 2,000,000 records in memory
- Prints official calibration (DS400/DS404) or bump test certificates
- Economical use of gas for a lower cost of ownership

### Specific Features:

- Ability to cascade multiple docking stations
- Four test gas ports on the DS404 docking station
- No computer necessary for the operation of docking stations
- Daily bump testing is simple with the TS400
- Bump test records can be stored for easy retrieval and report generation
- Test stations are economical and simple to use





# DS400/DS404 and TS400/TX400 Docking Stations and Test Stations



## Single Inlet Docking Stations

Part Number	Description	Price
1450-401	DS400 Docking Station – Single cradle*	\$ 2,405.00
1450-402	DS400 Docking Station – Double cradle (Instrument & Pump)*	\$ 2,565.00
1450-406	DS400 Docking Station for G888 / G999*	\$ 2,565.00
1450-408	DS400 Docking Station for G222*	\$ 2,565.00
1450-401R	DS400 Docking Station – Single cradle w/ demand flow regulator	\$ 2,920.00
1450-402R	DS400 Docking Station – Double cradle (Instrument & Pump) w/ demand flow regulator	\$ 3,070.00
1450-406R	DS400 Docking Station for G888 / G999 w/ regulator P/N 1419-216	\$ 3,005.00

\* Operation will require the use of a demand flow regulator.

## Four Inlet Docking Stations

Part Number	Description	Price
1450-404	DS404 Four Inlet Multi-gas Docking Station – Single cradle*	\$ 4,065.00
1450-405	DS404 Four Inlet Multi-gas Docking Station – Double cradle (Instrument & Pump)*	\$ 4,215.00
1450-407	DS404 Four Inlet Multi-gas Docking Station for G888 / G999*	\$ 3,435.00
1450-409	DS404 Four Inlet Multi-gas Docking Station for Dual Gas G222*	\$ 4,215.00
1450-404R1	DS404 Four Inlet Multi-gas Docking Station – Single cradle w/ 1 regulator**	\$ 4,580.00
1450-404R2	DS404 Four Inlet Multi-gas Docking Station – Single cradle w/ 2 regulators**	\$ 5,085.00
1450-404R3	DS404 Four Inlet Multi-gas Docking Station – Single cradle w/ 3 regulators**	\$ 5,600.00
1450-404R4	DS404 Four Inlet Multi-gas Docking Station – Single cradle w/ 4 regulators**	\$ 6,105.00
1450-405R1	DS404 Four Inlet Multi-gas Docking Station – Double cradle (Instrument & Pump) w/ 1 regulator**	\$ 4,730.00
1450-405R2	DS404 Four Inlet Multi-gas Docking Station – Double cradle (Instrument & Pump) w/ 2 regulators**	\$ 5,240.00
1450-405R3	DS404 Four Inlet Multi-gas Docking Station – Double cradle (Instrument & Pump) w/ 3 regulators**	\$ 5,755.00
1450-405R4	DS404 Four Inlet Multi-gas Docking Station – Double cradle (Instrument & Pump) w/ 4 regulators**	\$ 6,255.00
1450-407R1	DS404 Four Inlet Multi-gas Docking Station for G888 / G999 w/ 1 regulator**	\$ 3,765.00

\* Operation will require the use of a demand flow regulator per cylinder of gas.

\*\* Includes regulators for aluminum cylinders, P/N 1419-216.

## Multi-unit Docking Station Systems

Part Number	Description	Price
1450-401-3X	3 unit DS401 Docking Station system, all stations w/single gas inlet, single cradle, unit-to-unit power adapters, Ethernet cables & standard accessories	\$ 7,660.00
1450-402-3X	3 unit DS402 Docking Station system, all stations w/single gas inlet, double cradle, unit-to-unit power adapters, Ethernet cables & standard accessories	\$ 8,115.00
1450-401R-3X	3 unit DS401 Docking Station system, all stations w/single gas inlet, single cradle, unit-to-unit power adapters, Ethernet cables, standard accessories & one demand flow regulator (DFR)	\$ 8,275.00
1450-402R-3X	3 unit DS402 Docking Station system, all stations w/single gas inlet, double cradle, unit-to-unit power adapters, Ethernet cables, standard accessories & one demand flow regulator (DFR)	\$ 8,730.00
1450-404-2X	2 unit DS404 Docking Station system, all stations w/four gas inlets, single cradle, unit-to-unit power adapters, Ethernet cables & standard accessories	\$ 8,545.00
1450-405-2X	2 unit DS405 Docking Station system, all stations w/four gas inlets, double cradle, unit-to-unit power adapters, Ethernet cables & standard accessories	\$ 8,840.00

Two unit docking station systems and other combinations are available.



# DS400/DS404 and TS400/TX400 Docking Stations and Test Stations



## Test Stations

Part Number	Description		Price
1450-601	TS400 Test Station – Single cradle*	Includes tubing, software, USB cable and manual	\$ 1,140.00
1450-602	TS400 Test Station – Double cradle (Instrument & Pump)*		\$ 1,360.00
1450-611	TS400 Test Station with charging – Single cradle*		\$ 1,445.00
1450-612	TS400 Test Station with charging – Double cradle (Instrument & Pump)*		\$ 1,515.00
1888-701	TX400 Test Station for G888 / G999*		\$ 1,270.00
1888-711	TX400 Test Station for G888 / G999 with charging function*		\$ 1,515.00

\* Operation will require the use of a push button regulator.

## Accessories

Part Number	Description	Price
804765	CO <sub>2</sub> Absorption filter for DS400 and DS404 Docking Station	\$ 135.00
1450195	Cradle, Single for DS400 and DS404 Docking Station	\$ 195.00
1450196	Cradle, Double (Instrument & Pump) for DS400 and DS404 Docking Station	\$ 380.00
1450196-F	Cradle, Double (Instrument & Pump w/inlet) for DS400 and DS404 Docking Station	\$ 405.00
1450231	USB cable, 9 foot length, for DS400 and DS404 Docking Station	\$ 150.00
1450600	USB cable, 6 foot length, mini 5 pin for TS400 Test Station	\$ 35.00
1450-300	Replacement Retaining Bracket (for TS400 or charging cradle)	\$ 40.00
2103-015	Double Power Adapter Connector (1/4") for DS400 and DS404 Docking Station	\$ 25.00
4003-401	Cable, 12" RS485 Interconnect Link for DS400 and DS404 Docking Station	\$ 20.00
3005-404	Software CD for DS400 and DS404 Docking Station	\$ 20.00
3005-400	Software CD for TS400 Test Station	\$ 20.00
4001-650D	Power Supply, 110V for DS400 and DS404 Docking Station	\$ 45.00
4001-650DV	Vehicle Power Supply for DS400 and DS404 Docking Station	\$ 75.00

		Flow	Gauge	On/Off	Cylinders	HCI/Cl <sub>2</sub>	
2603-400	Regulator, Push button, for TS400 - with inside thread	0.5 lpm	Yes	Yes	Aluminum	No	\$ 280.00
1419-216	Regulator, Demand Flow - with inside thread C-10 connection	3 lpm max	Yes	No	Aluminum	No	\$ 450.00
1419-217	Regulator, Demand Flow - disposable cylinders with outside thread CGA600	3 lpm max	Yes	No	34 L Steel	No	\$ 450.00



Double Power Adapter Connector  
P/N 2103-015



Vehicle Power Supply  
P/N 4001-650DV



Interconnect Link Cable  
P/N 4003-401

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# RAM 744

## Respiratory Airline Monitor



CO



Portable Filter Panel  
P/N 9050-744



RAM 744  
P/N 744



Wall Mount Filter Panel  
P/N 8050-744

The RAM 744 is the ideal monitor for portable applications and where space is limited. It is mounted with the filtration system, allowing for rapid response and eliminating the possibility of sample lines becoming blocked or crimped.

All GfG Instrumentation RAM instruments satisfy the requirements of OSHA rule 29 CFR 1910.134 (d) (2) (ii) for carbon monoxide monitoring. They will also monitor Grade E air, generally specified for breathing air in cylinders (SCBA).

The compact, portable "air case" encloses the three-stage 25, 50 or 100 CFM filter panel with the RAM 744 CO monitor in a rugged carrying case. All models have quick-connect inlets and outlets.

Any GfG Instrumentation RAM instrument can be custom-configured to meet the needs of the end user's exact specifications.

### Standard Accessories:

- RAM 744
- Standard electrochemical carbon monoxide (CO) sensor
- Optional low hydrogen interference CO sensor (add "-H" to part number)
- Manual

### Features:

- Continuous inline carbon monoxide (CO) monitor
- Low maintenance, dependable, long-life electrochemical sensor
- Meets OSHA requirements for grade D breathing air
- AutoCal® automatic calibration
- Three-stage filtering option for up to 8 users

## Instruments and Filter Panels\*

### Instrument only

Base Part Number	Description	Price	
		Standard CO sensor	Low H <sub>2</sub> interference CO sensor add "-H" to part number
744	RAM instrument with standard (0 - 99 ppm) CO sensor (to be used with approved filter panel)	\$ 1,150.00	\$ 1,270.00
744-XP	RAM instrument with standard (0 - 99 ppm) CO sensor with power pack in watertight suitcase	\$ 2,165.00	\$ 2,280.00

### Instruments with Complete Filter Panel

Base Part Number	Description	Price	
		Standard CO sensor	Low H <sub>2</sub> interference CO sensor add "-H" to part number
8025-744	25 CFM wall mount filter panel, maximum of 2 ports*	\$ 2,340.00	\$ 2,455.00
8050-744	50 CFM wall mount filter panel, maximum of 4 ports*	\$ 2,810.00	\$ 2,925.00
8100-744	100 CFM wall mount filter panel, maximum of 8 ports*	\$ 3,690.00	\$ 3,810.00
9025-744	25 CFM portable filter panel, maximum of 2 ports*	\$ 2,785.00	\$ 2,895.00
9050-744	50 CFM portable filter panel, maximum of 4 ports*	\$ 3,535.00	\$ 3,650.00
9100-744	100 CFM portable filter panel, maximum of 8 ports*	\$ 4,615.00	\$ 4,735.00

\* RAM 744 instruments and panels may be optionally equipped with a low hydrogen interference (CO-H) carbon monoxide sensor.

# RAM 744

## Respiratory Airline Monitor



### Replacement Sensors

Part Number	Sensors	Resolution	Range	Price
1450004	Carbon monoxide (CO) for monitor with serial numbers $\geq 09080100^*$	1 ppm	0 - 99 ppm	\$ 375.00
1450014A	Carbon monoxide with reduced hydrogen interference (CO-H)	1 ppm	0 - 99 ppm	\$ 375.00

\* Serial number <09080100 will require a factory refurb and the purchase of a new sensor.

### Calibration Kits and Accessories

Part Number	Description	Concentration	Size	Balance	Cylinder	Price
7802-013	Calibration gas, Carbon monoxide (CO)	10 ppm	34 L	Air	Steel	\$ 65.00
7802-006	Calibration gas, Zero gas (O <sub>2</sub> ) (impurity free air)	20.9%	34 L	N <sub>2</sub>	Steel	\$ 65.00
7735-101	Calibration Kit with carrying case, regulator, calibration adapter, test gas cylinders (zero air and carbon monoxide) and tubing					\$ 425.00
2603-020	Regulator, 0.5 lpm fixed flow with pressure gauge and on/off knob for cylinders with outside thread (34 L steel)					\$ 285.00
2603-010	Regulator, 0.5 lpm fixed flow with on/off knob and guage for cylinders with outside thread (34 L steel)					\$ 205.00
4001-027A	Power adapter, 110 V AC					\$ 90.00
7740-744	Calibration adapter					\$ 25.00
7701-744	Calibration connector with tubing and regulator					\$ 130.00
1301-002	Remote horn, 110 V AC					\$ 345.00
1301-001	Remote horn, 12 V DC					\$ 260.00
1301-744	Remote horn/strobe with 25 feet of cable (for portable units only)					\$ 265.00
2609-25P	Filter kit for 8025 and 9025					\$ 335.00
2609-50P	Filter kit for 8050 and 9050					\$ 370.00
2609-100P	Filter kit for 8100 and 9100					\$ 450.00



(with Power Pack)

Portable Compressed Air Monitor  
P/N 744-XP

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# RAM 4021

## Respiratory Airline Monitor



CO, Dew Point, O<sub>2</sub>



The RAM 4021 AutoCal® series is the unit of choice where specific and accurate measurement of carbon monoxide, oxygen or dew-point levels are required. Our innovative AutoCal® system makes calibration and maintenance simple. Additional features include alarm relay contacts, user adjustable alarm points, and low flow alarm indicator. All models may be purchased with or without airline filter systems.

The 25, 50 and 100 CFM wall mounted filter panels remove dangerous contaminants from supplied air sources and ensure clean, breathable air. The three-stage filter system efficiently removes particulates, oil vapors and hydrocarbons from an air supply. After filtration, the regulator sets the pressure for the respiratory equipment, and the manifold assembly provides multiple outlets for airline hose quick connections.

All GfG Instrumentation RAM Instruments satisfy the requirements of OSHA rule 29 CFR 1910.134 (d) (2) (ii) for carbon monoxide monitoring. They will also monitor Grade E air, generally specified for breathing air in cylinders (SCBA).

### Features:

- Continuous carbon monoxide (CO) monitor for compressed air
- Optional low hydrogen interference CO sensor (add "-H" to part number)
- Integrated dew point measurement (if specified)
- Meets OSHA monitoring requirements for grade D breathing air
- AutoCal® automatic calibration
- Available in CE or CSA marked models
- Dryer control relays (DPX model only)
- User-adjustable alarm points
- Dry contacts for remote horn and lights
- Internal, case-mounted horn
- LCD display

- NEMA 4X housing
- Optional 3 stage filtering for up to 8 users

### Standard Accessories:

- RAM 4021 Monitor
- Standard carbon monoxide (CO) or optional low H<sub>2</sub> interference (CO-H) sensor. Other sensors (as specified)
- Manual

## Standard Instruments\*

Base Part Number	Description	Price	
		Standard CO sensor	Low H <sub>2</sub> interference CO sensor add "-H" to part number
4021	Carbon monoxide (CO) monitor	\$ 1,875.00	\$ 1,995.00
4021-1	Carbon monoxide (CO) and oxygen (O <sub>2</sub> ) monitor	\$ 2,455.00	\$ 2,570.00
4021-AR	Carbon monoxide (CO) monitor with alarm reset	\$ 1,945.00	\$ 2,060.00
4021-C	Carbon monoxide (CO) monitor with CSA approval	\$ 1,995.00	-
4021-DP	Dew point monitor (CO sensor not included)	\$ 3,160.00	-
4021-DP-PR	Dew point monitor with power relay. Complies with NFPA 99 C-26 (5.1.3.5-15). (CO sensor not included)	\$ 3,280.00	-
4021-DPX	Carbon monoxide (CO) and dew point monitor for medical breathing air applications with dryer control relays	\$ 3,535.00	\$ 3,650.00
4021-DPX-PR	Carbon monoxide (CO) and dew point monitor with power relay. Complies with NFPA 99 C-26 (5.1.3.5-15)	\$ 3,650.00	\$ 3,765.00
4021-DPX-PR-420	Carbon monoxide (CO) and dew point monitor with power relay 4-20 mA output. Complies NFPA 99 C-26 (5.1.3.5-15)	\$ 3,765.00	\$ 3,880.00
4021-O	Oxygen (O <sub>2</sub> ) monitor	\$ 2,305.00	-
4021-PR	Carbon monoxide (CO) monitor with power relay Complies NFPA 99 C-26 (5.1.3.5-15)	\$ 2,005.00	\$ 2,120.00
4021-TS	Carbon monoxide (CO) monitor with toggle switch (for audible alarm)	\$ 2,005.00	\$ 2,120.00
9025-XPS	Portable filter panel / 25 CFM w/4021-1 (2 ports)	\$ 4,990.00	\$ 5,110.00
9025-XP1K	Portable filter panel / 25 CFM w/4021-1 (2 ports), kickstand & recessed charge jack	\$ 5,175.00	\$ 5,290.00

\* For sensor ranges and resolutions see Replacement Sensors. Additional configurations are available upon request.



# RAM 4021

## Respiratory Airline Monitor



### CE Marked RAM 4021 Instruments

Base Part Number	Description	Price	
		Standard CO sensor	Low H <sub>2</sub> interference CO sensor add "-H" to part number
9025-XPS-CE	Portable filter panel / 25 CFM with 4021-1-CE (2 ports) with CE mark	\$ 5,350.00	\$ 5,475.00

Note: CE marked version conforms with all pertinent EEC directives. For sensor ranges and resolutions see Replacement Sensors.

### Filter Panels (Without Instrument)\*

Part Number	Description	Price
8025	25 CFM wall mount filter panel, maximum of 2 ports*	\$ 1,280.00
8050	50 CFM wall mount filter panel, maximum of 4 ports*	\$ 1,740.00
8100	100 CFM wall mount filter panel, maximum of 8 ports*	\$ 2,895.00
9025	25 CFM portable filter panel, maximum of 2 ports	\$ 1,400.00
9050	50 CFM portable filter panel, maximum of 4 ports	\$ 1,975.00
9100	100 CFM portable filter panel, maximum of 8 ports	\$ 3,075.00

\* RAM 4021 instruments are typically wall-mounted adjacent to the filter panel. The 4021 instrument can also be custom mounted together with the filter panel (see pricing below) on the same mounting plate.

### Instruments with Complete Filter Panels

Part Number	Description	Price
8025-4021	Wall mount filter panel / 25 CFM with 4021 (2 ports)	\$ 3,325.00
8050-4021	Wall mount filter panel / 50 CFM with 4021 (4 ports)	\$ 3,725.00
8100-4021	Wall mount filter panel / 100 CFM with 4021 (8 ports)	\$ 4,425.00

### Replacement Sensors

Part Number	Sensors	Resolution	Range	Price
5701-011	Oxygen (O <sub>2</sub> )	0.1% vol.	0 - 25% vol.	\$ 420.00
5503-020	Carbon monoxide (CO)	1 ppm	0 - 100 ppm	\$ 375.00
1450014A	Carbon monoxide with reduced hydrogen interference (CO-H)**	1 ppm	0 - 100 ppm	\$ 375.00
5503-035	High Dew Point (special order only)	1 °F	10 - 70 °F	\$ 1,180.00
5503-034	Low Dew Point (special order only)	1 °F	-40 - 15 °F	\$ 525.00
1702-DPX	Dew Point sensor for medical breathing air	1 °F	-112 - 68 °F	\$ 1,420.00
5503-048	4100-DP Dew Point sensor	1 °C	-80 - 20 °C	\$ 1,420.00

\*\* P/N 1450014A CO-H replacement sensor is only for the RAM 4021 Low H<sub>2</sub> interference instruments (see previous page); part numbers ending in "-H".



Portable Filter Panel  
P/N 9025-XPS





# RAM 4021

## Respiratory Airline Monitor



### Calibration Kits and Accessories

Part Number	Description	Concentration	Size	Balance	Cylinder	Price
7802-013	Calibration gas, Carbon monoxide (CO)	10 ppm	34 L	Air	Steel	\$ 65.00
7802-001	Calibration gas, Carbon monoxide (CO)	20 ppm	34 L	Air	Steel	\$ 65.00
7802-002	Calibration gas, Carbon monoxide (CO)	50 ppm	34 L	Air	Steel	\$ 65.00
7802-020	Calibration gas, Nitrogen (N <sub>2</sub> )	99.99% vol.	34 L	N/A	Steel	\$ 65.00
7802-006	Calibration gas, Zero gas (O <sub>2</sub> ) (impurity free air)	20.9%	34 L	N <sub>2</sub>	Steel	\$ 65.00
7750-001	Calibration Kit with carrying case, regulator, calibration adapter, test gas cylinder and tubing					\$ 360.00
7750-005	Calibration Kit with CO and zero gas, carrying case, regulator, calibration adapter and tubing					\$ 410.00
7750-004	Regulator, 0.4 lpm fixed flow with on/off knob and gauge for cylinders with outside thread (34 L steel)					\$ 145.00
2608-013	Inlet regulator with filter					\$ 150.00
2608-001	Inlet regulator with filter and gauge					\$ 170.00
2605-002	High pressure inlet regulator (5,000 psi)					\$ 400.00
2605-014	Inlet regulator for dew point monitors					\$ 110.00
7750-003	Calibration Adapter with tubing and regulator					\$ 170.00
1301-002	Remote Horn, 110 V AC					\$ 345.00
1301-001	Remote Horn, 12 V DC					\$ 260.00
2609-015	Replacement filter element for regulator (2608-004) for monitors w/serial numbers <171016100					\$ 35.00
2609-023	Replacement filter element for regulator (2608-013) for monitors w/serial numbers ≥171016100					\$ 35.00
2609-25P	Filter Kit for 8025 and 9025 panels					\$ 335.00
2609-50P	Filter Kit for 8050 and 9050 panels					\$ 370.00
2609-100P	Filter Kit for 8100 and 9100 panels					\$ 450.00
2610-001	Humidifier					\$ 130.00
9000-4021	Field Service Kit (includes 2 tubing assemblies, 2 pressure switches and flow meter)					\$ 255.00
2604-133	Calibration port					\$ 25.00
4001-021	Charger for 9025 series					\$ 255.00



Custom 8100-4021 Filter panel with  
100 CFM 8 outlet manifold

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# RAM 4035 Transmitter



CO



GfG's 4035 transmitter for detecting carbon monoxide (CO) gas in supplied breathing air is an inexpensive detection solution for use in a wide variety of today's medical air applications.

The robust aluminum housing is corrosion resistant and dust tight. It fully protects the transmitters electronic components from harsh environments and atmospheric hazards.

The 4035 is the simplest way to monitor conditions. Simply attach it to a controller or a PLC to continuously and efficiently monitor the concentration of CO contaminants in the air.

The 4035 is also reverse-wire protected to prevent damage due to incorrect wiring of the device. The power connector has a "quick disconnect" feature to simplify transmitter installation and service.

All GfG Instrumentation RAM Instruments satisfy the requirements of OSHA rule 29 CFR 1910.134 (d) (2) (ii) for carbon monoxide monitoring. They will also monitor Grade E air, generally specified for breathing air in cylinders (SCBA).

## Features:

- Continuous carbon monoxide (CO) monitor for supplied breathing air
- Simple to use and extremely economical
- Robust aluminum housing is corrosion resistant and dust-tight
- Linear 4 to 20 mA output signal
- 18-24 VDC
- Electrochemical (EC) detection principle
- 5-99% r.H. non-condensing humidity range

## Standard Accessories:

- RAM 4035 Monitor
- Standard carbon monoxide (CO) sensor
- Manual

## Transmitters

Part Number	Description	Price
4035-22	Carbon monoxide (CO) Transmitter, 4-20 mA output, 0-300 ppm	\$ 1,110.00
4035-RF	Carbon monoxide (CO) Transmitter, 4-20 mA output, 0-300 ppm, with increased RF resistance	\$ 1,175.00

## Replacement Sensors

Part Number	Sensors	Resolution	Range	Price
5704-025	Carbon monoxide (CO)	1 ppm	0 - 300 ppm	\$ 375.00

## Calibration Kits and Accessories

Part Number	Description	Concentration(s)	Size	Balance	Cylinder	Price
7802-001	Calibration gas, Carbon monoxide (CO)	20 ppm	34 L	Air	Steel	\$ 65.00
7802-006	Calibration gas, Zero gas (O <sub>2</sub> ) (impurity free air)	20.9%	34 L	N <sub>2</sub>	Steel	\$ 65.00
7750-001	Calibration Kit with carrying case, regulator, calibration adapter, test gas cylinder and tubing					\$ 360.00
7750-005	Calibration Kit with CO and zero gas, carrying case, regulator, calibration adapter and tubing					\$ 410.00
7750-004	Regulator, 0.4 lpm fixed flow with on/off knob and gauge for cylinders with outside thread (34 L steel)					\$ 145.00
2604-133	Replacement calibration port					\$ 25.00

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# Calibration Gas Pricing

For Portable Instruments and Respiratory Air Monitors



## Calibration Gas

Part Number	Gas	Concentration	Size*	Balance	Cylinder*	Price
7802-031	Ammonia (NH <sub>3</sub> )	100 ppm	34 L	Air	Aluminum	\$ 345.00
7803-001	Ammonia (NH <sub>3</sub> )	100 ppm	58 L	Air	Aluminum	\$ 370.00
7802-055	Butane (C <sub>4</sub> H <sub>10</sub> )	50% LEL	34 L	Air	Steel	\$ 105.00
7802-032	Carbon dioxide (CO <sub>2</sub> )	4% vol	34 L	N <sub>2</sub>	Steel	\$ 65.00
7802-040	Carbon dioxide (CO <sub>2</sub> )	25% vol.	34 L	N <sub>2</sub>	Steel	\$ 65.00
7802-042	Carbon dioxide (CO <sub>2</sub> )	4% vol	34 L	N <sub>2</sub>	Aluminum	\$ 170.00
7802-013	Carbon monoxide (CO)	10 ppm	34 L	Air	Steel	\$ 65.00
7802-001	Carbon monoxide (CO)	20 ppm	34 L	Air	Steel	\$ 65.00
7802-004	Carbon monoxide (CO)	200 ppm	34 L	Air	Steel	\$ 65.00
7802-029	Chlorine (Cl <sub>2</sub> )**	10 ppm	34 L	N <sub>2</sub>	Aluminum	\$ 355.00
7802-115	Ethylene (C <sub>2</sub> H <sub>4</sub> )	50% LEL	34 L	Air	Steel	\$ 65.00
7802-159	Ethylene oxide (ETO) (C <sub>2</sub> H <sub>4</sub> O)**	10 ppm	34 L	N <sub>2</sub>	Aluminum	\$ 370.00
7802-047	Hexane (C <sub>6</sub> H <sub>14</sub> )	50% LEL	34 L	Air	Steel	\$ 65.00
7802-046	Hydrogen (H <sub>2</sub> )	1,000 ppm	34 L	Air	Steel	\$ 65.00
7802-036	Hydrogen (H <sub>2</sub> )	2,000 ppm	34 L	Air	Steel	\$ 65.00
7802-021	Hydrogen (H <sub>2</sub> )	50% LEL	34 L	Air	Steel	\$ 65.00
7802-048	Hydrogen (H <sub>2</sub> )	50% LEL	34 L	Air	Aluminum	\$ 170.00
7802-025	Hydrogen (H <sub>2</sub> )	99.9% vol.	34 L	Air	Steel	\$ 65.00
7803-024	Hydrogen chloride (HCl)**	10 ppm	58 L	N <sub>2</sub>	Aluminum	\$ 385.00
7802-009	Hydrogen chloride (HCl)**	10 ppm	34 L	N <sub>2</sub>	Aluminum	\$ 355.00
7803-003	Hydrogen cyanide (HCN)	20 ppm	58 L	N <sub>2</sub>	Aluminum	\$ 370.00
7802-022	Hydrogen sulfide (H <sub>2</sub> S)	20 ppm	34 L	N <sub>2</sub>	Aluminum	\$ 175.00
7802-024	Isobutylene (C <sub>4</sub> H <sub>8</sub> )	100 ppm	34 L	Air	Steel	\$ 65.00
7802-224	Isobutylene (C <sub>4</sub> H <sub>8</sub> )	200 ppm	34 L	Air	Steel	\$ 65.00
7802-044	Isobutylene (C <sub>4</sub> H <sub>8</sub> )	100 ppm	34 L	Air	Aluminum	\$ 170.00
7803-014	Isobutylene (C <sub>4</sub> H <sub>8</sub> )	100 ppm	105 L	Air	Aluminum	\$ 185.00
7802-019	Methane (CH <sub>4</sub> )	99.9% vol.	34 L	N <sub>2</sub>	Steel	\$ 65.00
7802-011	Methane (CH <sub>4</sub> )	50% LEL	34 L	Air	Steel	\$ 65.00
7802-014	Methane (CH <sub>4</sub> )	50% LEL	34 L	Air	Aluminum	\$ 170.00
7802-038	Methane (CH <sub>4</sub> )	99.9% vol.	34 L	N <sub>2</sub>	Aluminum	\$ 170.00
7802-075	Methane (CH <sub>4</sub> )	1% vol.	34 L	Air	Aluminum	\$ 170.00
7802-111	Pentane (C <sub>5</sub> H <sub>12</sub> )	50% LEL	34 L	Air	Steel	\$ 65.00
7802-205	Phosphine (PH <sub>3</sub> )	5 ppm	34 L	N <sub>2</sub>	Aluminum	\$ 355.00
7802-012	Propane (C <sub>3</sub> H <sub>8</sub> )	50% LEL	34 L	Air	Steel	\$ 65.00
7803-025	Nitric oxide (NO)	50 ppm	58 L	N <sub>2</sub>	Aluminum	\$ 370.00
7802-027	Nitrogen dioxide (NO <sub>2</sub> )	10 ppm	34 L	N <sub>2</sub>	Aluminum	\$ 355.00
7802-020	Nitrogen (N <sub>2</sub> )	99.99% vol.	34 L	N/A	Steel	\$ 65.00
7803-020	Nitrogen (N <sub>2</sub> )	99.99% vol.	105 L	N/A	Aluminum	\$ 185.00
7802-066	Sulfur dioxide (SO <sub>2</sub> )	10 ppm	34 L	N <sub>2</sub>	Aluminum	\$ 170.00
7802-056	Zero gas (O <sub>2</sub> ) (Impurity free air)	20.9%	34 L	N <sub>2</sub>	Aluminum	\$ 170.00
7802-006	Zero gas (O <sub>2</sub> ) (Impurity free air)	20.9%	34 L	N <sub>2</sub>	Steel	\$ 65.00
7803-006	Zero gas (O <sub>2</sub> ) (Impurity free air)	20.9%	105 L	N <sub>2</sub>	Aluminum	\$ 185.00

\* For 34 L steel cylinder use regulators with inside (female) thread. See applicable product price sheet for regulator details. For 103 L steel and all aluminum cylinders use regulators with outside (male) thread. See applicable product price sheet for regulator details.

\*\* Requires 1 lpm flow when using fixed flow regulators.

# Calibration Gas Pricing

For Portable Instruments and Respiratory Air Monitors



## All-in-one multi component calibration gas mixtures

Part Number	LEL (CH <sub>4</sub> )	O <sub>2</sub>	CO	H <sub>2</sub> S	CO <sub>2</sub>	SO <sub>2</sub>	Size	Balance	Cylinder	Price
7802-016	50%	18%	200 ppm	-	-	-	34 L	N <sub>2</sub>	Steel	\$ 65.00
7803-016	50%	18%	200 ppm	-	-	-	58 L	N <sub>2</sub>	Aluminum	\$ 220.00
7802-030	50%	18%	200 ppm	20 ppm	-	-	44 L	N <sub>2</sub>	Aluminum	\$ 160.00
7803-030	50%	18%	200 ppm	20 ppm	-	-	58 L	N <sub>2</sub>	Aluminum	\$ 265.00
7804-030	50%	18%	200 ppm	20 ppm	-	-	116 L	N <sub>2</sub>	Aluminum	\$ 405.00
7802-017	50%	18%	200 ppm	20 ppm	4% vol.	-	34 L	N <sub>2</sub>	Aluminum	\$ 235.00
7803-017	50%	18%	200 ppm	20 ppm	4% vol.	-	58 L	N <sub>2</sub>	Aluminum	\$ 380.00
7802-037	50% (Pentane Equivalent)	18%	200 ppm	20 ppm	-	-	34 L	N <sub>2</sub>	Aluminum	\$ 160.00
7802-051	50%	18%	200 ppm	20 ppm	-	10 ppm	34 L	N <sub>2</sub>	Aluminum	\$ 255.00
7803-051	50%	18%	200 ppm	20 ppm	-	10 ppm	58 L	N <sub>2</sub>	Aluminum	\$ 325.00

## Regulators

Part Number	Description	Flow	Gauge	On/Off	Cylinders	Exotic gases*	Price
2603-020	Regulator, Fixed Flow	0.5 lpm	Yes	Yes	34 L Steel	No	\$ 285.00
2603-025	Regulator, Fixed Flow	0.5 lpm	Yes	Yes	103 L / 105 L Steel and any Aluminum	No	\$ 285.00
2603-026	Regulator, Fixed Flow	1 lpm	Yes	Yes		Yes	\$ 285.00
1419-216	Regulator, Demand Flow – with inside thread C10 connection	3 lpm max	Yes	No	34 L Steel	No	\$ 450.00
1419-217	Regulator, Demand Flow - disposable cylinders with outside thread CGA600	3 lpm max	Yes	No	34 L Steel	No	\$ 450.00

\* HCl/Cl<sub>2</sub>, C<sub>2</sub>H<sub>4</sub>O

Please note: Shipping HAZMAT requires licensure and additional shipping costs.

# Bump Test Gas Pricing

For Portable Instruments and Respiratory Air Monitors

## ecoBump



### Bump Test Gas

### Single Target Gases



Part Number	Gas	Concentration	Size	Balance	Cylinder	Price
7801-002	Ammonia (NH <sub>3</sub> )	200 ppm	7 L	Air	Aluminum	\$ 195.00
7801-004	Carbon monoxide (CO)	200 ppm	7 L	Air	Aluminum	\$ 195.00
7801-023	Hydrogen sulfide (H <sub>2</sub> S)	50 ppm	7 L	Air	Aluminum	\$ 195.00
7801-044	Isobutylene (C <sub>4</sub> H <sub>8</sub> )	100 ppm	7 L	Air	Aluminum	\$ 195.00
7801-020	Nitrogen, Pure (N <sub>2</sub> )	99.99% vol.	7 L	-	Aluminum	\$ 195.00
7801-027	Nitrogen dioxide (NO <sub>2</sub> )	10 ppm	7 L	N <sub>2</sub>	Aluminum	\$ 195.00
7801-066	Sulfur dioxide (SO <sub>2</sub> )	10 ppm	7 L	N <sub>2</sub>	Aluminum	\$ 195.00

### All-in-one multi component gas mixture

Part Number	LEL (CH <sub>4</sub> )	O <sub>2</sub>	CO	H <sub>2</sub> S	CO <sub>2</sub>	SO <sub>2</sub>	Size	Balance	Cylinder	Price
7801-030	50%	15%	200 ppm	75 ppm	-	-	7 L	N <sub>2</sub>	Aluminum	\$ 195.00

### Accessories

Part Number	Description	Price
2603-006	Valve, drain C10 fitting	\$ 30.00
2603-400	Push button regulator .5 lpm	\$ 280.00
2603-600	Trigger regulator .5 lpm	\$ 380.00
7745-038	Bump Kit, Alkaline with 4-way gas, includes regulator P/N 2603-400	\$ 460.00
7745-040	Bump Kit, Rechargeable with 4-way gas, includes regulator P/N 2603-400	\$ 500.00

GfG Instrumentation introduces ecoBump test gas by Gasco.

EcoBump is a returnable 4-inch-tall cylinder for convenient bump testing of single and multi-gas monitors as well as fixed systems.

The ecoBump four-gas mix can achieve a proper bump test within three seconds, providing over 250 bump tests per unit. Its convenient size and its returnable feature make it not only an essential tool for the widest range of applications, but also allows for a much cleaner and less wasteful environment.

#### Features:

- 1200 psi
- Considered non-hazardous when shipping (ground within USA), eliminating costly hazardous materials freight charges
- Approximately 250 three second bumps
- Cylinder has C10 fitting to adapt to existing regulators

**Note:** 6 month shelf life. Low level reactive gases not available.

G450, G460, G888 and G999 Bump Kits available, see price sheets for more details.

GfG reserves the right to change part numbers, prices and/or technical information without notice. All rights reserved to correct typographical errors. All prices are listed in US dollars.



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# Portable Gas Detector Warranty

## For Portable/RAM Instruments, Accessories and Sensors

GfG Instrumentation warrants our products to be free from defects in material and workmanship when used for their intended purpose, and agrees to remedy any such defect or to furnish a new part (at the option of GfG Instrumentation) in exchange for any part of any product that we manufacture that under normal use is found to be defective; provided that the product is returned, by the purchaser, to GfG's factory, intact, for our examination, with all transportation costs prepaid, and provided that such examination reveals, in our judgment, that it is defective.

This warranty does not extend to any products that have been subjected to misuse, neglect, accident, or unauthorized modifications; nor does it extend to products used contrary to the instructions furnished by us or to products that have been repaired or altered outside of our factory. No agent or reseller of GfG Instrumentation may alter the above statements.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY AND ALL OTHER WARRANTIES AND REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. GfG WILL NOT BE LIABLE FOR LOSS OR DAMAGE OF ANY KIND CONNECTED TO THE USE OF ITS PRODUCTS OR FAILURE OF ITS PRODUCTS TO FUNCTION OR OPERATE PROPERLY.

### Instrument and Accessory Warranty Periods

Product(s)	Warranty Period
G222, G450, G460, Micro IV, G888, G999 Portable Monitors and RAM 744 and RAM 4021 Respiratory Airline Monitors	Limited lifetime warranty on electronics to the original purchaser (as long as the instrument is in service)
Rechargeable battery pack – G450, G460, G888 & G999	Two years from the date of purchase
Battery packs (alkaline) and chargers, sampling pumps and other components, which by their design are consumed or depleted during normal operation, or which may require periodic replacement	One year from the date of purchase
RAM - Filters and other components which by their design are consumed or degraded in normal operation, or which may require periodic replacement	N/A

### Sensor Warranty Periods, by Instrument Installed

Instrument(s)	Sensor Type	Warranty Period
G460 (Purchased after March 1, 2019, P/N 1460231D), G888, G999, G222	O <sub>2</sub> (lead-free)	5 Years
G450*, G460*, Micro IV*, G888, G999, G222	Standard LEL <sup>**</sup> , O <sub>2</sub> , CO, CO-H, H <sub>2</sub> S, COSH (CO and H <sub>2</sub> S) and NDIR (CO <sub>2</sub> and combustible)	3 Years
	Unfiltered LEL <sup>**</sup> , Cl <sub>2</sub> , ClO <sub>2</sub> , C <sub>2</sub> H <sub>4</sub> O, H <sub>2</sub> , HCN, NO <sub>2</sub> , NO, PH <sub>3</sub> , SO <sub>2</sub> , PID <sup>***</sup>	2 Years
	CH <sub>3</sub> SH, NH <sub>3</sub> , HF, HCl, O <sub>3</sub> , SiH <sub>4</sub> , THT	1 Year
	COCl <sub>2</sub>	6 Months
All Airline (RAM 744, 4021 & 4035)	CO, CO-H, O <sub>2</sub> , Dew Point	1 Year
All Others	All	1 Year

\* Optional 6-year extended warranties available on certain sensor configurations (not including all O<sub>2</sub> and LEL sensors).

\*\* Damage to combustible gas sensors by acute or chronic exposure to known sensor poisons such as volatile lead (aviation gasoline additive), hydride gases such as phosphine, and volatile silicone gases emitted from silicone caulks/sealants, silicone rubber molded products, laboratory glassware greases, spray lubricants, heat transfer fluids, waxes & polishing compounds (neat or spray aerosols), mold release agents for plastics injection molding operations, waterproofing formulations, vinyl & leather preservatives, and hand lotions which may contain ingredients listed as cyclomethicone, dimethicone and polymethicone (at the discretion of GfG's Instrument Service department) void GfG Instrumentation's Standard Warranty as it applies to the replacement of combustible gas sensors.

\*\*\* PID sensor electronics warranty is for the lifetime of the sensor. The PID 10.6eV replacement lamp warranty is for 2 years.

# GfG Instrumentation

## Customer Support and Service



**Customer Service Toll-Free 800-959-0329**  
**service@goodforgas.com**  
**orders@goodforgas.com**



The highly qualified service technicians in GfG Instrumentations customer service department are committed to delivering the best customer service in the industry.

Gas monitors require regular calibration to protect workers from gas hazards due to inaccurate readings. Monitors require calibration for a number of reasons; normal sensor degradation over a period of time, exposure to extreme temperature or humidity conditions, exposure to high levels of gas, damage or improper maintenance.

GfG's factory trained technicians will perform a complete inspection and analysis of all portable instruments and components. Communication of repair status and estimates are provided. And a final inspection is performed by a certified Quality Assurance technician.

### Service Includes:

- Complete inspection and analysis
- Repairs are performed at GfG manufacturing facility
- NIST calibration certificate (if applicable)
- Final Quality Assurance testing
- Expedited service turnaround available

## Repair and Calibration

### Repair Services

Description	Price
Bench fee for portable instrument repairs	\$ 125.00
Inspection fee for monitors returned without repair	\$ 40.00
G450 Factory refurbishment** (includes 4 new sensors, housing front/back, filters, alligator clip and alkaline battery pack) P/N 1450-RFB-A*	\$ 595.00
G450 Factory refurbishment** (includes 4 new sensors, housing front/back, filters, alligator clip and rechargeable NiMH battery pack) P/N 1450-RFB-R*	\$ 595.00
G450 Factory refurbishment** (includes 4 new sensors, housing front/back, filters, alligator clip and rechargeable NiMH with lights battery pack) P/N 1450-RFB-F*	\$ 595.00

\* Shipping costs are not included.

\*\* Sale of refurbishment kits are limited to certified GfG repair distributors.

### Calibration Services

Description	Price
Bench fee for calibration (NIST calibration certificate included if applicable)	\$ 125.00

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# GfG Instrumentation Sales and Marketing Support



Toll-Free 800-959-0329  
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[marketing@goodforgas.com](mailto:marketing@goodforgas.com)  
[info@goodforgas.com](mailto:info@goodforgas.com)



GfG Instrumentations integrated Sales and Marketing teams are dedicated to the support and success of our distribution lines. Through the new company website, ever increasing application notes, technical literature, presentations, webinars and hands on training, GfG strives for continual improvement of our support services.



## Sales and Marketing Support

### Sales Support Services

#### Description

Quoting assistance  
 Comprehensive Fixed Systems Department  
 Hands on training (individuals or group)  
 Speaking engagements  
 Ask Bob blog  
 International GfG partner network  
 OEM sales

### Sales and Marketing Materials

#### Description

Company website with Partner portal  
 Application notes  
 Technical notes  
 Powerpoint presentations  
 Product literature bulk printing  
 AIHA PDC courses  
 Webinars  
 GfG YouTube channel  
 Promotional GfG logo items  
 Tradeshow banner and GfG table cloth for loan  
 Image library for download  
 Multi-lingual support materials  
 Distributor catalog ad content  
 Distributor website product / image content



# GfG Worldwide

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Worldwide availability  
and quality



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**Technology for people and the environment**

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