



GfG Instrumentation

G450

The World's Most Advanced Confined Space Gas Detector



- Compact and robust 1-to-4 sensor design
- Full 3-year warranty on all sensors
- Interchangeable battery packs for up to 25 hours of continuous operation
- Motorized pump operable in diffusion or sample draw mode
- Highly water resistant (IP 67)
- Affordable price!

G450 Series

Continuously measures up to four gas hazards

The **G450 Confined Space Gas Detector** continuously measures up to four hazards (CO, H₂S, O₂ and percent LEL combustible gas) in air.

Water resistant design

The **G450** is compact, robust and very easy-to-use. The dust proof and highly water resistant (IP-67) housing is designed to survive the toughest environmental conditions. The housing even includes a built-in rubberized boot to withstand the hard knocks of confined space entry.

Three year warranty on all sensors

Dependable and accurate **G450** sensors keep the cost-of-ownership down. All sensors – including O₂, LEL combustible, CO and H₂S sensors – carry a full three year warranty from the date of purchase.

Easy operation

The **G450** keeps gas detection simple. Most day-to-day functions are controlled with a single button, and calibration is fully automatic. Simply attach the adapter and flow gas to the sensors. GfG AutoCal® programming automatically makes the adjustments, and updates the information in the instrument's on-board memory.

Datalogging Standard

All **G450** instruments are equipped with datalogging. The datalogger records gas concentrations and alarms on a moment-to-moment basis. Monitoring results can be downloaded to a PC for viewing, storage and evaluation.

Up to 25 hours operation

G450 battery packs deliver up to 25 hours of continuous operation. Alkaline packs are powered by two "AA" batteries. Rechargeable battery packs can even be equipped with optional "flash light" LEDs.



Loud audible and bright visual alarms warn users of danger

The **G450** includes an extremely loud audible alarm (103 dB at 12 inches), built-in vibrator and bright wrap-around LED alarm lights *visible from every direction*. The top-mounted display changes color from green, to orange to red *just like a traffic signal* to help communicate the severity of the hazardous condition.

Top-mounted display easy to read even in the dark

Whether it's worn on your belt or held by hand, the **G450** is easy to read. The top-mounted, full graphics LCD includes a built-in backlight for use in the dark. Readings can be "zoomed" or "flipped" at the push of a button to make it even easier to see your monitoring results.

Motorized sampling pump

The field attachable motorized pump is powered by its own alkaline or rechargeable battery pack. The powerful diaphragm pump is equipped with an on / off shutter that allows the instrument to be used in diffusion mode *even while the pump is attached*.

Accessories

Each **G450** comes complete with sensors and battery pack (as specified), calibration adapter, and a manual. Rechargeable instruments additionally include a drop-in cradle charger and wall power adapter. The DS400 Docking Station offers completely automatic functional testing, calibration, instrument charging and record keeping.

SKU	Description
36LR42	G450 / LEL, O ₂ , CO, H ₂ S NiMH battery, w/ Confined Space Kit & Pump, Double Charging Cradle
36LR43	G450 / LEL, O ₂ , CO, H ₂ S NiMH Battery, w/ Confined Space Kit, Single Charging Cradle
36LR44	G450 / LEL, O ₂ , CO, H ₂ S NiMH Flashlight Battery w/Confined Space Kit, Single Charging Cradle
34VJ42	G450 / LEL,O ₂ ,CO, H ₂ S NiMH battery w/ Single Charging Cradle
36LR52	Docking Station for G400 Series Monitors
36LR56	Smart Pump, Rechargeable
34VJ45	Sensor, Oxygen 0-25% vol.
34VJ46	Sensor, Hydrogen Sulfide 0-100 ppm
34VJ47	Sensor, Carbon Monoxide 0-500 ppm
36LR57	Sensor, Combustible 0-100% LEL
36LR53	Battery Pack, Alkaline
36LR54	Battery Pack, NiMH
36LR55	Battery Pack, NiMH w/Flashlight
34VJ44	Black Carrying Case w/Foam Insert
34VJ43	Calibration Gas, 4-way/34L/Aluminum Cylinder

Specifications

Ranges & Resolution for Sensors

Carbon monoxide (CO)	0 - 500 ppm	1 ppm
Hydrogen sulfide (H ₂ S)	0 - 100 ppm	0.1 ppm
Oxygen (O ₂)	0 - 25 % vol	0.1 %/vol
LEL	0 - 100% LEL	0.5 LEL
CH ₄	0 - 5 % vol	0.02 %/vol

Expected Sensor Life

Carbon monoxide (CO)	3 years or longer
Hydrogen sulfide (H ₂ S)	3 years or longer
Oxygen (O ₂)	3 years
LEL	3 years
Unfiltered LEL	2 years

Datalogging: Included

1,890 intervals (55 hours at 2 minutes). Also stores events, calibration history and other information.

Other Specification

Dimensions:	2.95x4.33x2.17 in (75x110x55 mm)
Weight:	10 oz (280 g)
Power:	2 "AA" batteries or rechargeable NiMH battery pack
Operation time:	Up to 25 hours
Charge Time:	8 hours
Alarms:	Vibrating: Standard Audible: 103 db (30 cm) Visual: Bright, 360° wraparound LEDs, plus heterochromatic (green / orange / red) backlit display
Housing:	IP-67 (dust proof and highly water resistant)
Temperature range:	-4 to +122°F (-20 to +50°C) ambient
Humidity range:	5 to 95% r.h. (non-condensing)
Pressure Range:	700 to 1,300 hPa
Intrinsic safety:	c-CSA-us Class 1, Div. 1, Groups A, B, C, D Temperature Code T3 Class I, Zone 0: Ex ia IIC T3
EMI / RFI resistance:	EMC Directive 89/336/EEC

Standard Accessories

Charger (if specified)
Calibration Adapter
Manual
Informational CD

Optional Accessories

Pump, 10 feet of tubing and probe
Datalogging kit
Docking Station
Calibration gas, kits and regulators

Warranty

Limited lifetime on instrument and electronics. Three years on all sensors including LEL*, O₂, CO and H₂S.

* Two year warranty on unfiltered LEL sensor.

Refer to GG complete warranty for details

Specifications subject to change without notification