

G450

The World's Most Advanced Confined Space Gas Detector



G450 Multi-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 continuous operation
- **Now with INMETRO Certification!**

- Motorized pump operable in diffusion or sample-draw mode
- Highly water resistant (IP 67)
- **Affordable price!**

GfG Instrumentation

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

G450 Multi-gas Detector

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 continuous 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 dangerous conditions

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.



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 |

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

Approvals

Intrinsic safety: c-CSA-us
Class I, Division 1, Groups A, B, C, and D T3
Ex ia IIC T3
Class I, Zone 0 AEx ia IIC T3
Ex da ia IIC T3 Ga -20 ≤ Ta ≤ +50 °C T3 07.1934905
Standards: IEC 60079-0:2011 (Ed.6)
IEC 60079-1:2014 (Ed.7)
IEC 60079-11:2011 (Ed.6)
CSA C22.2 No. 152-M 1984
UL 913
ANSI / ISA-12.13.01-2000

EMI / RFI Resistance: EMC Directive 89 / 336 / EEC
INMETRO: Ex da ia IIC T3 Ga
(-20 °C ≤ Tamb ≤ +50 °C)

MSHA Approved version available

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 GfG complete warranty for details

Specifications subject to change without notification

Distributed by:



GfG Instrumentation

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

Rev. 13 (05/12/17)