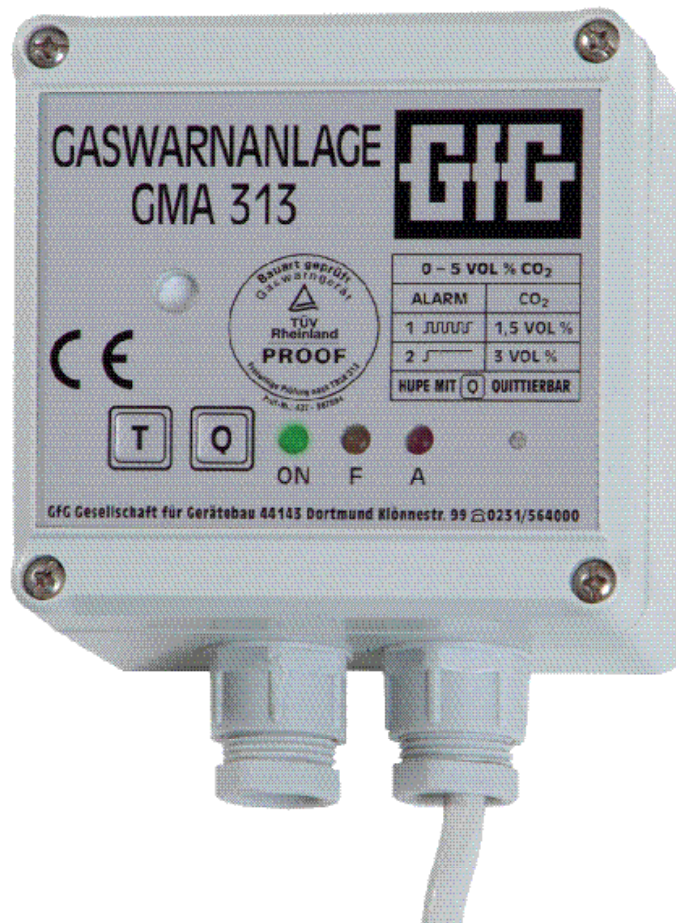


# GMA 313

## Monitor for Carbon Dioxide



## GMA 313 CO<sub>2</sub> Gas Monitor

- Simple plug in installation
- Alarms at 1.5 and 3 % volume
- Built-in alarm lights and horn
- Relay for additional external alarm
- Sensor lifetime 5 years +

**GfG Instrumentation**

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# GMA 313 CO<sub>2</sub> Gas Monitor

## State of the Art Technology Infrared Principle

The best solution for CO<sub>2</sub> monitoring from the specialists in gas detection. The GMA 313 indicates a gas hazard immediately and reliably. The built-in alarm LED and loud horn provide a warning before entering the room. The external alarm GMA 313 EQ also gives a warning wherever you want it, e.g. at the stairway or at the bar. The GMA 313 offers state-of-the-art sensor and microprocessor technology from a compact unit.

The sensor and electronics, horn and lights are integrated in one enclosure, thus saving installation costs. The robust casing is splash-water proof (IP 54), so splash-water cannot enter and damage the monitor. Thermostat control and temperature compensation of the sensor ensure reliable measurements and safety even in case of sudden temperature changes.

## Low Maintenance and Long Lifetime

The infrared (NDIR) sensor has a considerably longer lifetime than an electrochemical CO<sub>2</sub> sensor. The GMA 313 is low maintenance, robust, and reliable. Installation of the GMA 313 is very simple, just plug it into a standard 110 v ac wall outlet.

Carbon dioxide (CO<sub>2</sub>) absorbs light in the infrared range of the spectral. The NDIR technology of GfG's sensor detects the carbon dioxide concentration precisely and reliably. The infrared light emitted by a lamp passes through the gas sample. Carbon Dioxide absorbs the light in a narrow spectral range.

The remaining light is measured at the detector. The difference between emitted and detected light is proportional to the gas concentration. Water vapor and other gases, which may be presenting the sensor chamber, do not affect the light absorption in this spectral range.

Safe detection results, even with temperature changes. Precise optical measurement ensures the best accuracy and repeatability. The IR principle is as distinct as a fingerprint in criminology.

This means that only carbon dioxide is detected, thus eliminating false alarms from interfering gases. GfG Products use electronics with voltage stabilization and temperature compensation.

This results in stable measurement values even with considerable temperature variations.

The GMA 313 has no moving parts which could be subject to wear and tear. This ensures a long lifetime and reduced service requirements. Permanent self-check of functional capability provides additional safety. Sensor and electronics are protected by a robust enclosure (IP 54).



## Specifications

### Gas

Carbon Dioxide (CO<sub>2</sub>)

### Range

0 to 5 % volume

### Detection Principle

Non dispersive infrared (NDIR)

Thermostat-controlled = no effect from temperature variations.

No condensation of humidity = no false measurement values.

### Gas Supply

Diffusion

### Alarm Threshold

First alarm: 1.5 % volume not latching

Second alarm: 3 % volume latching

### Internal Alarm

Horn, 95 dB (at 1 ft.)

LED

Relays, 250 V, 5 A

### Humidity

0 to 99 % r.h.

### Pressure

700 to 1,300 hPa

### Ambient Temperature

14 to 110°F (-10 to +45°C)

### Casing Protection

IP 54

### Lamps

Red LED flashing: first alarm

Red LED lit: second alarm

Green LED: power

Yellow LED: fault

### Power Supply

115 V

### Dimensions

4x4x2.25 inches (100x100x58 mm) (HxWxD)

### Weight

70 ounces (200 grams)

Specifications subject to change without notification

Distributed by:



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