GMA311

Carbon dioxide monitor



- Permanent self-check
- State-of-the-art microprocessor technology
- Infrared sensor
- Sensor lifetime 5 years +
- Safe and economic



The best solution for CO, monitoring from the specialists in gas detection

The carbon dioxide monitor GMA311 indicates a gas hazard immediately and reliably. The built-in alarm LED and loud horn provide a warning reliably. The infrared light emitted before entering the room. The external visual alarm GMA311 EQ also gives a warning wherever you wantit, e.g. at the stairway or at the bar. The GMA311 offers state-of-the-art sensor and microprocessor technology from a compact unit.

The sensor and the electronics, horn and lights are integrated in one enclosure, thus saving installation cost. The robust casing is splashwater proof (IP54), so splashwater 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

The infrared (NDIR) sensor has a considerably longer lifetime than an electrochemical CO₂ sensor. The GMA311 is low maintenance, robust and reliable. Installation of the GMA311 is very simple, a 230V mains plug is supplied.

Infrared principle

Carbon dioxide (CO₃) light in the infrared range of the spectral. The NDIR technology of GfG's sensor detects the carbon dioxide concentration precisely and 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 vapour and other gases, which may be present in the sensor chamber, do not affect the light absorption in this spectral

Safe detection results, even with temperature changes

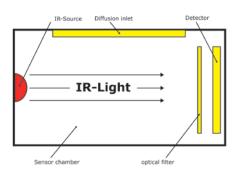
optical Precise measurement ensures best accuracy repeatability. The IR principle is as distinct as a fingerprint in criminology.

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

results in stable measurement values even with considerable temperature variations.

Robust technology for long

The GMA311 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 (IP54).



GMA311

Carbon dioxide (CO₂)

Detection range:

0 .. 5 %-Vol.

Detection principle:

Non dispersive infrared absorption Thermostat-controlled » no effect from temperature variations No condensation of humidity » no false measurement values

Gas supply:

Diffusion

Expected sensor life:

> 5 years

Technical Data

Humidity:

0 .. 99 % r.h.

Pressure:

700 .. 1300 hPa

Ambient temperature:

-10°C .. +45°C

Casing protection:

IP54

Alarm threshold:

0.5 and 1.0 %-Vol. CO,

Built-in horn, 95dB(A) at 30 cm LFD indication Connection for external alarm and

Red LED, flashing: pre-alarm Red LED, permanent: main alarm Green LED: operation

Yellow LED: fault

Voltage supply:

230 V 50 Hz, incl. 2 m cable and plug

Dimensions:

100 x 100 x 58 mm (WxHxD)

Weight:

approx. 200 g

Accessories:

External visual alarm and reset, impact protection





