GMA313 – Carbon Dioxide Gas Monitor

Technical Data

Gas:
Carbon dioxide (CO_2)
Carbonic acid

Detection range:
0 .. 5 Vol.-%

Detection principle:
Non-dispersive infrared absorption (NDIR).
Thermostated → no affect by temperature changes.
No condensation of moisture → no measurement falsification.

Gas supply:
Diffusion

Expected sensor life:
More than 5 years

Humidity:
0 .. 99 % r.h.

Pressure:
700 .. 1300 hPa

Ambient temperature:
Storage: -25 .. +70° C
Operation: -10 .. +45° C

Enclosure protection:
IP DIN 40050

Alarm:
Built-in buzzer, 95dB (30 cm)
Built-in relay, 250 V, 5 A
LED indication

Display:
Red LED, flashing: pre-alarmoralarm
Red LED, permanent: main alarm
Green LED: operation
Yellow LED: fault

Voltage supply:
230 V 50 Hz, incl. 2 m cable and mains plug

Dimensions:
100 x 100 x 58 mm (WxHxD)

Weight:
approx. 200 g

Accessories:
Connection cable NYM 3x0.75 mm^2 or 3x1.5 mm^2, external visual alarm and reset, time relay for fan control, impact protection

The GMA313 indicates a gas hazard immediately. With its built-in alarm light and its loud buzzer the GMA313 gives a reliable warning not only at the danger spot but even before entering the hazardous area. The visual alarm unit GMA313 EQ gives an additional alarm indication wherever you want to install it, e.g. at the stairways or at the bar.

Additional alarm lamps and buzzers can easily be connected to the GMA313. The standard relay of the GMA313 can be used e.g. to activate a fan. The GMA313 avoids a permanent ventilation in summer and flooding of the cool storage cellar with warm and humid air. This prevents condensate at the cool cellar walls.

The use of innovative sensor and processor technology allows to produce a compact unit. The sensor and the whole circuitry, relay, buzzer and lights are integrated in one enclosure and save installation cost. The robust casing with its IP 54 classification protects from splash water. Failure and repair work are eliminated. The unique thermostat control and the optimal temperature compensation of the sensor provide reliable measurements and safety even in case of considerable temperatur changes.

The infrared (NDIR) sensor has a considerably longer lifetime than an electrochemical C02 sensor. The permanent functional self-check provides additional safety.

The GMA313 is almost maintenance-free, robust and reliable. Production automation and state-of-the-art technology ensure the low purchase cost of the GMA313. Installing the GMA313 is remarkably easy and uncomplicated. Cost saving is also achieved by abandoning of expensive special cabling.