

Dynagard 25 Series Single Point Fixed CO₂ Monitoring System



- Easy installation
- Local display and horn / strobe
- Adjustable alarm points
- On-board relays for external controls
- 4-20 mA output

Simple and Effective

The Dynagard 25 Series accurately measures CO₂ levels. The unit offers a local display, a horn / strobe, and a linear 4-20 mA output. The Dynagard 25 Series offers a safe and reliable gas warning system.

Alarm Points

Each alarm can be adjusted separately. The alarm point values can be freely adjusted within the detection range of the transmitter. Every alarm point value can be set to over range / under range, latching / non-latching, or resettable / non-resettable.

Alarm Relays

The controller provides four voltage-free relays for the three alarms and one fault warning. The relays may be used to control additional alarm devices like lights or horns. They can even prompt specific counter measures to prevent or limit dangers from gases or vapors.

IR 24 Detection Principle: Infrared Light

Since carbon dioxide (CO₂) absorbs light in the infrared spectral range, the NDIR method used in the GfG sensor can measure the carbon dioxide concentration precisely and reliably. Infrared light is sent through the sensor chamber. Carbon dioxide absorbs a part

of this light in a narrow spectral range, and the remaining light is measured at the detector. The difference between the light sent and received is proportional to the gas concentration. Water vapor or other gases that can be present in the sensor chamber do not affect the light absorption in this spectrum band.



Dynagard 25 Series Technical Data

Cases

Carbon dioxide (CO₂)

Detection range

0-5% volume

Detection principal

IR

Expected sensor life

3 years +

Gas supply

Diffusion

Humidity

0 to 99% r.h. non-condensing

Temperature range

32 to +122°F / 0 to +55°C

Pressure

920 to 1,100 hPa

Power supply

24 VDC wall pack

Weight

6.5 lbs. (2.95 kg)

Display

3-digit LED display for linear measurement values, service

1 LED green – operational status

1 LED yellow – fault

3 LEDs red – alarm

Display of maximum / minimum values

Alarms

3 alarm points

User adjustable within the detection range

Alarm Functions Available

Over range / under range

Latching / non-latching

Resettable / non-resettable

Hysteresis adjustable

Delay-time 0 to 2 minutes

Alarm thresholds adjustable

Relays

3 alarm points, 1 fault – voltage free

Factory settings

A1 - strobe

A2 - open

A3 - horn

Fault - open

Voltage: 250 VAC 50/60 Hz or 250 VDC

maximum

Output signal

Linear 4-20 mA

Horn

Low - 70 dB at 10 ft. per UL 464

High - 83 dB at 10 ft. per UL 464

Strobe

Light output on axis (cd)

Low - 35

High - 68

Dimensions

11x7x2.75 inches (27.9x17.8x7 cm) (HxWxD)

Specification subject to change without notification

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