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IR22 D Transmitter

Infrared measurement of carbon dioxide and combustible gases





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controllers (PLC).

The IR22 D infrared transmitter uses the adsorption spectra of gases for targeted monitoring of specific combustible gases and CO_2 . This measurement method allows reliable monitoring even under difficult conditions, such as a low percentage of oxygen in the ambient air.

Selective and insensitive

Not only is the method highly selective, it is also extremely insensitive to sensor toxins and, unlike for example catalytic sensors, can monitor the concentration of combustible gases even when there is little or no oxygen in the gas mixture.

Analog and digital communication

The measured values and status information of the IR22 D can be transmitted either

Overview of the gases and measuring ranges:

(CO₂)

Other gases on request.

» Carbon dioxide

0 to 1.0% by volume	» Methane	(CH ₄)
0 to 5.0% by volume		
0 to 10.0% by volume	» Difluormethane/R32	(CH_2F_2)
0 to 25.0% by volume		
0 to 50.0% by volume	» Propane	(C₃H ₈)

special states (yellow).

analog (4-20 mA or 0.2-1 mA) or digital

(RS-485). This allows not only the use in

combination with any GfG controller, but

also the connection to programmable logic

Protection level and display elements

The compact housing for wall mounting

is protected against splash water and dust

(IP54). The D version of the IR22 has a 2.2

inch display to show measured values,

status information and alarms at the

measuring point. Normally backlit in green,

the display changes for visual alert to red

in the event of an alarm. At the same time, an acoustic alarm signal can be emitted

from the integrated horn. The status LEDs

indicate operational readiness (green) and

Technical Data: IR22 D

Measuring principle: Infrared (IR) Detection ranges*: 0 to 100% LEL 0 to 50% by volume Gas supply: Diffusion or gassing per calibration adapter Expected sensor life: Greater than 5 years Response time: t90 < 50 s Temperature: -13 to +122 °F / -25 to +50 °C Humidity: 0 to 95% r. h. (non-condensing) Pressure: 70 to 130 kPa **Output signal:**

Analog: 0.2-1 mA or 4-20 mA Digital: RS-485 Power supply: 12 to 30 V DC Housing: Plastic Protection class: IP54 Dimensions: $3.8 \times 4.75 \times 2$ in / $96 \times 123 \times 49$ mm (W x H x D) Weight: 6 to 7 oz / 170 to 195 g*

One-man calibration and adjustment

All service and maintenance work can be performed by a single technician. A calibration adapter facilitates regular function checks. It ensures the safe and steady supply of test gas during maintenance.



IR22 D transmitter with one cable entry for analog connection

0 to 100% LEL

- 0 to 5.0% by volume
- 0 to 100% LEL
- 0 to 14.0% by volume
- 0 to 100% LEL
- 0 to 2.0% by volume

Approvals / Certifications:

Functional Safety (SIL): DIN EN 61508-2: 2011 EC-type examination: PFG 15 G 001 (for measuring function) Electromagnetic compatibility: DIN EN 50270 Interference emission: Type class 1 Interference immunity: Type class 2 CSA:** c-CSA-us CAN/CSA-C22.2 No. 61010-1-12 + Amd 1 - 18 UL 61010-1 (2012)

** CO2 version only





* Sensor dependent

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GfG Instrumentation, Inc. 1194 Oak Valley Drive, Suite 20, Ann Arbor, MI 48108 USA Phone: (734) 769-0573 • Toll Free (USA / Canada): (800) 959-0329 Website: www.gfgsafety.com/us-en • info@goodforgas.com