

IR22 F Transmitter

Optional local alarms for each transmitter location



GfGsafety.com/us-en

IR22 F Transmitter

Optional local alarms for each transmitter location

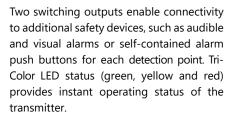
CO₂ detection for cold storage

Carbon dioxide leaks in cold storage rooms can quickly become dangerous because CO₂ refrigeration systems operate at high pressures. In the case of subcritical and transcritical systems, these are often above 100 bar.

The IR22 F transmitter reliably monitors the CO₂ concentration under the toughest of conditions, while providing additional safety functions.

Robust and durable

The rugged IP65 IR22 F transmitter measures carbon dioxide (CO₂) from -40 °F to +140 °F.



Digital, analog or ACDC

The IR22 F is available with digital RS-485 interface and Modbus protocol or as analog 4-20 mA. It is also ACDCcapable (Analog Carrier for Digital Communication) which allows additional data to be transmitted digitally over the 4-20 mA cabling.

Dependant on transmitter quantity and the connected alarm devices, bus cable lengths of up to 3/4 of a mile are possible.





Push button manual alarm

Manual alarm and acknowledgement

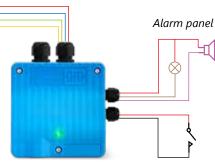
The digital input can be used to connect a manual push button for instant alarm activation / alarm acknowledgement.



Switching outputs



Connection and configuration example



e.g. manual alarm button or acknowledgement of the horn

Technical Data: IR22 F

Gas: Carbon dioxide (CO₂) Measuring principle: Infrared (IR) **Detection range:** Range: 0 to 5% volume Resolution: 0.01% volume Gas supply: Diffusion or gassing per calibration Switching outputs: 2x Open collectors adapter Expected sensor life: Greater than 5 years Response time: t90 < 50 s Temperature: -40 to +140 °F / -40 to +60 °C

Humidity: 0 to 95% r. h. non-condensing Pressure: 70 to 130 kPa **Output signal:**

Analog: 4-20 mA with ACDC Digital: RS-485 Modbus

Digital input:

Binary input, optionally quiescent or operating current, for manual alarms Power supply: 12 to 30 V DC Housing: Plastic Protection class: IP65 Dimensions: 3.8 x 4.75 x 2 in / 96 x 123 x 49 mm $(W \times H \times D)$ Weight: 4.4 to 5.3 oz / 125 to 150 g



www.gfgsafety.com/us-en

© GfG Instrumentation, Inc. 2022 All specifications on this brochure are subject to technical changes due to further development.

USA and Canada Latin America Germany South Africa Asia Pacific Great Britain Switzerland France Poland Austria Netherlands

info@goodforgas.com info@goodforgas.com info@gfg-mbh.com info@gfg.co.za sales@gfg-asiapac.sg sales@gfggas.co.uk info@gfg.ch alainflachon@gfg-gasdetection.fr biuro@gfg.pl austria@gfg-mbh.com info@gfg-gasdetection.nl



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